

James H. Lash
Site Vice President

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February 2, 2007 L-07-023

ATTN: Document Control Desk U. S. Nuclear Regulatory Commission Washington, DC 20555-0001

Subject: Beaver Valley Power Station, Unit No. 2

Docket No. 50-412, License No. NPF-73

Twelfth Refueling Outage Inservice Inspection Report

Enclosed please find the Inservice Inspection (ISI) Summary Report on American Society of Mechanical Engineers (ASME) Class 1, 2, 3 and CC component examinations performed prior to and during the twelfth refueling outage at Beaver Valley Power Station Unit No. 2 (BVPS-2). The ASME Boiler and Pressure Vessel Code, Section XI, Article IWA-6230 requires an inservice inspection summary report to be submitted to the enforcement and regulatory authorities having jurisdiction at the plant site within ninety days of the completion of the inservice inspection conducted during each refuleing outage. The recent inservice inspection term at BVPS-2 covered the period from April 30, 2005 to November 11, 2006.

The Class 1, 2, and 3 examinations are part of Interval 2, Period 3 of the BVPS-2 ISI schedule, and were performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1989 Edition. The IWL examination was performed in accordance with Section XI of the ASME Boiler and Pressure Vessel Code, 1992 Edition, 1992 Addenda. This was the second 5-year IWL examination performed at BVPS-2 since 10 CFR 50.55a requirements regarding IWL became effective on September 9, 1996.

There are no regulatory commitments contained in this letter. If there are any questions or if additional information is required, please contact Mr. Henry L. Hegrat, Supervisor, FENOC Fleet Licensing, at (330) 315-6944.

Sincerely,

for James H. Lash

Enclosure

c: Ms. N. S. Morgan, NRR Project Manager

Mr. P. C. Cataldo, Sr. Resident Inspector

Mr. S. J. Collins, NRC Region I Administrator

Mr. J. Payton, Commonwealth of Pennsylvania

BEAVER VALLEY POWER STATION UNIT 2 Route 168, Shippingport, PA

Inservice Inspection Summary Report

Outage 12, Year 2006

Inspection Term: 4/30/2005 to 11/11/2006

Issue date: 1-23-07

Owner: FirstEnergy 76 South Main St. Akron, OH 44308		
NRC Docket Number: 50-4	112	
Reactor Supplier: Westingh Commercial Service Date:	-	
Prepared by:	pabeli	Date:
Reviewed by:	Nuclear Programs	Date: /-17-07
Reviewed by: Dean ANII	S. Zyzik	Date: <u>/-23-07</u>
Approved by: Manager, To	echnical Services Engineering	Date: 1-23-07

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FORM NIS-1 OWNER'S REPORT FOR INSERVICE INSPECTIONS As required by the Provisions of the ASME Code Rules

1. O	wner	FiretEnergy	Nuclear Operating Co	mpany, Route 168, Shippi	ngnort PA 150	77
•	-	Тизилиству		lame and Address of Owner)	1150	
2. Pl	lant	Beaver Valle	ey Power Station, Rou	te 168, Shippingport, PA	15077	
	•		1)	Name and Address of Plant)		
3. Pl	lant Unit	2	4. Owner Certificate	e of Authorization (if require	d) <u>N/A</u>	
5. Co	ommercial S	Service Date	11/17/87 6. Natio	onal Board Number for Unit	N/A	***
7. C	omponents	Inspected				
	Component of	3	Manufacturer or	Manufacturer or Installer Serial No	State or	National Board No.

		Manufacturer or		
Component or	Manufacturer or	Installer	State or	National
Appurtenance	Installer	Serial No.	Province No.	Board No.
Reactor Coolant				
Piping	Southwest Fabricating	N/A	N/A	N/A
Auxiliary				
Piping	Schneider Power	N/A	N/A	N/A
2RCS-REV21	Combustion Engineeering	CE-9071	160591B	21669
2RCS-P21A	Westinghouse Electric Corp	2S86P389	N/A	N/A
2RCS-P21C	Westinghouse Electric Corp	1SD035	N/A	N/A
2RCS-PRE21	Westinghouse Electric Corp	1911	485064V	W18695
2RCS-SG21A	Westinghouse Electric Corp	DMGT-1961	485065V	W-16598
2RCS-SG21B	Westinghouse Electric Corp	DMGT-1962	485066V	W-16599
2RCS-SG21C	Westinghouse Electric Corp	DMGT-1963	485067V	W-16600
2CHS-P-21A	Pacific Pumps / Dresser Ind.	49190	N/A	N/A
2RSS-P-21A	Bingham-Willamette	23049	N/A	N/A
2RSS-E21A	Joseph Oat Corp	2189-1A	485070V	890
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Note: Supplemental sheets in form of lists, sketches, or drawings may be used, provided (1) size is 8½ in. x 11 in., (2) information in items 1 though 6 on this report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

This form (E0029) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2300, Fairfield, NJ 07008-2300

FORM NIS-1 (Back)

8. Examination Dates	4/30/2005	_ to	11/11/2006	- .	
9. Inspection Period Identificat	ion: <u>4/30/20</u>	05 to 8/28/2008			
10. Inspection Interval Identific	cation: 11/17/19	997 to 8/28/2008	<u>;</u>		
11. Applicable Edition of Secti	on XI <u>1989</u>	Add	enda None		
12. Date/Revision of Inspection	Plan: <u>1/2-AD</u>	M-2039, Revisio	n 4		
 Abstract of Examination ar for the Inspection Plan. Se 2R12. 2R12 was the first 	e Appendix I (Co	ode Exams) for	examinations per	formed during (cerning status of work requir Cycle 12 and Refueling Out
14. Abstract of Results of Exar	nination and Tests	s. See text of su	ımmary report.		
15. Abstract of Corrective Mea Visual examinations of bore-examination.					ions were required in 2R12 d in boric acid cleaning and
We certify that a) the stater as required by the ASME Code, Certificate of Authorization No. Date //17/07	Section XI, and c	N/A FirstEnergy Nu	sures taken confor	m to the rules of biration Date N	
	CERTIFIC	ATE OF INSEI	RVICE INSPECT	TION	
I, the undersigned, holding a valuand the State or Province of Hartford, CT 4/30/2005 Owner has performed examinative with the Inspection Plan and as a By signing this certificate neithe examinations, tests, and cornor his employer shall be liable in from or connected with this inspector's Signature. Date 1 2 3 5	Pennsylvar have inspector o 11/1 ons and tests and required by the Atther the Inspector ective measures din any manner for ection.	nia and of ceted the compone 1/2006 taken corrective SME Code, Sect nor his employe escribed in this 0	employed by ents described in t and state that to th measures describe ion XI. er make any warran Dwner's Report. I ury or property da	HSB of his Owner's Reposite best of my known of in this Owner's net, expressed or furthermore, neith mage or a loss of NB 9428 ANIB	of ort during the period wledge and belief, the s Report in accordance implied, concerning her the Inspector any kind arising
Date 97 23-90,	<u></u>	-	•		

OUTAGE SUMMARY

During the Twelfth Refueling Outage (2R12) at the Beaver Valley Power Station, Unit No. 2 (BVPS-2), Inservice Inspection (ISI) examinations were performed on Class 1, 2, 3, and CC components. This was the first outage in the third period of the 2nd Ten-Year Interval. One refueling outage remains to complete the rest of the examinations scheduled during the 2nd Ten-Year Interval. Also included in this report and the counts below, are examinations performed prior to 2R12 during plant operation. The Class 1, 2 and 3 examinations were based on ASME Section XI, 1989 Edition and the IWL exam was based on ASME XI, 1992 Edition, 1992 Addenda. This was the second 5-year IWL examination performed at BVPS-2 since the 10CFR50.55a rule regarding IWL became effective 9/9/1996.

ASME XI Class 1, 2 and 3 Credited Exams (See Appendix I)

- 1. One-Hundrend, Nintey (190) Class 1 exams were performed and are divided as follows:
 - a. Pipe Welds

Ultrasonic Exams 23 Visual Exams

b. Vessel and Pump Welds

Ultrasonic Exams 16 Visual Exams

c. Bolting

Ultrasonic Exams - · 21 Visual Exams - 67

d. Piping and Component Supports

Visual Exams 55 Welded Attachments (PT) 2

- 2. One-Hundred, Thirty-five (135) Class 2 exams were performed and are divided as follows:
 - a. Vessel and Pump Welds

Ultrasonic Exams 2 12 Penetrant Exams Visual Exams

b. Pipe Welds

Ultrasonic Exams Visual Exams 29

c. Piping and Component Supports

Visual Exams 53 Welded Attachements (PT) - 19

3. Fifty-seven (57) Class 3 exams were performed and are divided as follows:

a. Supports (VT-3) - 35

- b. Welded Attachments (VT-1) - 22
- 4. The visual examination of the BV2 concrete containment was completed during this inspection term.

Examinations were performed by FirstEnergy Nuclear Operating Company (FENOC) and contracted NDE Technicians. Appendix I compiles the examinations that have been credited toward fulfilling the Ten Year Plan requirements.

Pressure Testing

The Class 1 piping System Leakage Test was performed prior to plant start-up. All Class 1 and 2 bolted connections subject to the examination requirements of IWA-5242, "Insulated Components" and Code Case N-533-1, "Alternate requirements for VT-2 Visual Examination of Class 1, 2 and 3 Insulated Pressure Retaining Bolted Connections" were examined during 2R12. Also, Class 2 and 3 system functional and system inservice tests were performed on various systems to fulfill the current 40-month pressure testing requirement.

Deficiency Resolution

Visual examinations (VT-1) of bolting per Examination Category B-G-2 found four components in the original outage scope with a relevant indication (evidence of coolant leakage near bolting), which resulted in a scope expansion of seven components. Examination of one of the seven additional components found boric acid residue, which resulted in an additional scope expansion of seven components. A total of nine components were found to have evidence of coolant leakage near the bolting. Four of the locations were cleaned and re-examined as acceptable. Five locations were accepted by analytical evaluation. Copies of these evaluations are included in Appendix II.

Steam Generator Tube Examination

One hundred percent of the in-service tubes were examined in the three steam generators. Results of the examinations are submitted to regulatory authorities in accordance with Technical Specification requirements.

IWL Containment Concrete Examinations

During this inspection term, the IWL examination was completed on the BVPS-1 and BVPS-2 concrete containments. The concrete surface was VT-3C examined for evidence of conditions indicative of damage or degradation. All suspect areas received a VT-1C examination. All IWL examinations were performed by qualifed examiners. The qualifications were obtained through EPRI's training program. All reportable indications were identified by the examination personnel and subsequently reviewed by the Responsible Engineer. The Responsible Engineer concluded that none of the reported conditions warranted further evaluation or repair.

NIS-2 Forms

Included as Appendix III are the NIS-2 Forms associated with repairs and replacements. Code Case N-416, Alternative Pressure Test Requirement for Welded Repairs or Installation of Replacement Items by Welding, Class 1, 2 and 3, was used. The revision of Record at BVPS for Code Case N-416 is currently Revision 2.

SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
001100	2CHS-PSR038	1	F-A	F1.10R	SUPPORT	VT-3	107404
002000	2CHS-PSST037	1	F-A	F1.10T	SUPPORT	VT-3	107404
004600	2CHS-PSSH658X	1	F-A	F1.10S	SUPPORT	VT-3	107408
023600	107421-MJ-04-B-1 TO 8	1	B-G-2	B7.50	PIPE BOLTING STUD BOLTS	VT-1	107421
025900	107421-MJ-01-B-1 TO 4	1	B-G-2	B7.50	PIPE BOLTING STUD BOLTS	VT-1	107421
026600	2CHS-PSSH050	1	F-A	F1.10S	SUPPORT	VT-3	107424
027400	2CHS-PSR049	1	F-A	F1.10R	SUPPORT	VT-3	107424
029400	2CHS-PSST044	1	F-A	F1.10T	SUPPORT	VT-3	107425
031200	107425-MJ-02-B-1 TO 8	1	B-G-2	B7.50	PIPE BOLTING STUD BOLTS	VT-1	107425
033500	107425-MJ-04-B-1 TO 4	1	B-G-2	B7.50	PIPE BOLTING STUD BOLTS	VT-1	107425
034200	2CHS-PSR653X	1 .	F-A	F1.10R	SUPPORT	VT-3	107428
034500	2CHS-PSR654X	1.	F-A	F1.10R	SUPPORT	VT-3	107428
037700	2CHS-PSR067A	1	F-A	F1.10R	SUPPORT	VT-3	110733
038200	2CHS-PSR066X	. 1	F-A	F1.10R	SUPPORT	VT-3	110733
049500	2CHS-PSST072	1	F-A	F1.10T	SUPPORT	VT-3	110739
050000	2CHS-PSR073	1	F-A	F1.10R	SUPPORT	VT-3	110739
050500	2CHS-PSST052	1	F-A	F1.10T	SUPPORT	VT-3	110739
062500	2DGS-PSR104	1	F-A	F1.10R	SUPPORT	VT-3	110771
062900	2DGS-PSR103	1	F-A	:F1.10R	SUPPORT	VT-3	110771
063300	2DGS-PSR053	1	F-A	F1.10R	SUPPORT	VT-3	110772
066100	2DGS-PSR101	1	F-A	F1.10R	SUPPORT	VT-3	110772
066200	2DGS-PSA102	1	F-A	- F1.10A	SUPPORT	VT-3	110772
088500	107005-MJ-01-B-1 TO 8	· 1	B-G-2	B7.50	2RCS-FE480 STUD BOLTS	VT-1	107005
111200	107010-MJ-01-B-1 TO 8	1	B-G-2	B7.50	2RCS-FE481 STUD BOLTS	VT-1	107010
127600	2RCS-PSR089X	1	F-A	F1.10R	SUPPORT	VT-3	107014
129800	2RCS-PSSH052X	1	F-A	F1.10S	SUPPORT	VT-3	107014
133700	107015-MJ-01-B-1 TO 8	1	B-G-2	B7.50	2RCS-FE482 STUD BOLTS	VT-1	107015
138900	2RCS-009-F01	1	R-A	R1.11	PIPE WELD	UT	110228
139200	2RCS-009-F02	1	R-A	R1.11	PIPE WELD	UT	110228
139400	2RCS-MOV595-B-1 TO 24	1	B-G-1	B6.210	2RCS-MOV595 STUDS	UT	110228
139500	2RCS-MOV595-B-1 TO 24	1	B-G-1	B6.230	2RCS-MOV595 NUTS,BUSHINGS & WASHERS	VT-1	110228
139600	2RCS-MOV595-FLG	. 1	B-G-1	B6.220	2RCS-MOV595 FLANGE SURFACE	VT-1	110228
143800	2RCS-007-F03	1	R-A	R1.11	PIPE WELD	UT	110231
144100	2RCS-007-F04	1	R-A	R1.11	NOZZLE TO SAFE-END	UT	110231
148500	2RCS-008-3A-2	1	R-A	R1.11	PIPE WELD	UT	110234
148700	2RCS-084-F03	1	B-J	B9.11	PIPE WELD	UT	110235
153200	2RCS-061-F503	1	R-A	R1.11	PIPE WELD	UT	110238
154300	2RCS-060-2B-2	1	R-A	R1.11	PIPE WELD	UT	110238
154630	2RCS-044-F07	2	R-A	R1.12	SOCKET WELD	VT-2	110454

SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
154660	2RCS-024-S03	. 2	R-A	R1.12	SOCKET WELD	VT-2	110456
156880	2RCS-PSA960	1	F-A	F1.10A	SUPPORT	VT-3	1107139
158100	2RCS-PSR115	1	F-A	F1.10R	SUPPORT	VT-3	1107140
160800	2RCS-PSSH058X	1	F-A	F1.10\$	SUPPORT	VT-3	110902
162000	2RCS-PSST024	1	F-A	F1.10T	SUPPORT	VT-3	110902
166400	2RCS-PSR006	1	F-A	F1.10R	SUPPORT	VT-3	110904
172800	2RCS-202-F01	1	B-J	B9.11	PIPE WELD	UT	110907
172900	2RCS-107-F01	1	B-J	B9.11	PIPE WELD	UT	110908
173300	2RCS-PSSH032X	1	F-A	F1.10S	SUPPORT	VT-3	110908
174000	2RCS-PSR033	1	F-A	F1.10R	SUPPORT	VT-3	110908
178800	2RCS-101-F01	1	B-J	B9.11	PIPE WELD	UT	110910
180950	2RCS-RV551A-SUP	. 1	F-A	F1.40E	VALVE SUPPORT	VT-3	RV-43A
181700	2RCS-103-F01	1	B-J	B9.11	PIPE WELD	UT	110911
183850	2RCS-RV551C-SUP	1	F-A	F1.40E	VALVE SUPPORT	VT-3	RV-43A
184600	2RCS-102-F01	1	B-J	B9.11	PIPE WELD	UT	110912
185400	110912-MJ1-B-01 TO 12	1	B-G-2	B7.70	BOLTING FOR 2RCS*RV551B	VT-1	110912
186700	2RCS*RV551B-B-01 TO 8	+ 3 %	B-G-2	B7.70	VALVE BOLTING	VT-1	110912
186750	2RCS-RV551B-SUP		F-A	F1.40E	VALVE SUPPORT	VT-3	RV-43A
187500	2RCS*PRE21-PEN		B-E	B4.20	HEATER PENETRATION WELDS	VT-2	E-1D
187600	2RCS*PRE21-101A	. / [N. 1]	B-F	B5.40	NOZZLE-TO-SAFE-END	UT	E-1D
187650	2RGS*PRE21-101A-OV-01				SAFETY NOZZLE WELD-OVERLAY	UT	E-1D
187700	2RCS*PRE21-102B	± 1.1	B-F	B5.40	NOZZLE-TO-SAFE-END	UT	E-1D
187750	2RCS*PRE21-102B-OV-01				SAFETY NOZZLE WELD-OVERLAY	UT	E-1D
187800	2RCS*PRE21-103C	1	B-F	B5.40	NOZZLE-TO-SAFE-END	UT	E-1D
187850	2RCS*PRE21-103C-OV-01				SAFETY NOZZLE WELD-OVERLAY	UT	E-1D
187900	2RCS*PRE21-107Z	. 1	R-A	R1.11	NOZZLE-TO-SAFE-END	UŢ	E-1D
187950	2RCS*PRE21-107Z-OV-01	•			PORV NOZZLE WELD-OVERLAY	UT	E-1D
188000	2RCS*PRE21-202Z	1	R-A	R1.11	NOZZLE-TO-SAFE-END	UT	E-1D
188050	2RCS*PRE21-202Z-OV-01				SPRAY NOZZLE WELD-OVERLAY	UT	E-1E
188100	2RCS*PRE21-84Z	1	R-A	R1.11	NOZZLE-TO-SAFE-END	UT	E-1D
188150	2RCS*PRE21-84Z-OV-01				SURGE NOZZLE WELD-OVERLAY	UT	E-1E
190100	2RCS*PRE21-C-7	· 1	B-B	B2.11	CIRCUMFERENTIAL WELD	UT	E-1D
190500	2RCS*PRE21-L-6	1	B-B	B2.12	LONGITUDINAL WELD	UT	E-1D
190800	2RCS*PRE21-N-10	1	B-D	B03.110	NOZZLE-TO-VESSEL WELD	UT .	E-1D
190900	2RCS*PRE21-N-10IR	1	B-D	B3.120	NOZZLE INSIDE RADIUS	UT	E-1D
191000	2RCS*PRE21-N-11	√1	B-D	B03.110	NOZZLE-TO-VESSEL WELD	UT	E-1D
191100	2RCS*PRE21-N-11IR	1	B-D	B3.120	NOZZLE INSIDE RADIUS	UT	E-1D
191200	2RCS*PRE21-N-12	1	B-D	B03.110	NOZZLE-TO-VESSEL WELD	UT	E-1D
191300	2RCS*PRE21-N-12IR	1	B-D	B3.120	NOZZLE INSIDE RADIUS	UT	E-1D

191500 2RCS*PEZ1-A-13 R	SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
198100 2RCS*P21A-C-1	191400	2RCS*PRE21-N-13	1	B-D	B03.110	NOZZLE-TO-VESSEL WELD		
198500 2RCS*P21A-LIG	191500	2RCS*PRE21-N-13IR	1	B-D	B3.120	NOZZŁE INSIDE RADIUS	UT	E-1D
PA	196100	2RCS*P21A-C-1	· 1	B-L-1	B12.10	PUMP CASING WELD	VT-1	E-1C
203300 2RCS'P21C(S)-B01TO B12 1 B-G-2 B7.60 SEAL HOUSING BOLT VT-1 E-1C 205700 2RCS'REV21-CAVLINA 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINC 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINC 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINC 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINE 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINE 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINF 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINF 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CAVLINF 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205900 2RCS'REV21-CONOSEAL-47 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205900 2RCS'REV21-CONOSEAL-49 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205900 2RCS'REV21-CONOSEAL-51 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205900 2RCS'REV21-CONOSEAL-51 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205900 2RCS'REV21-CROM NOZZLES 1 B-E B4.12 CROM NOZZLES VT-2 E-1A 205900 2RCS'REV21-SHRD.SUP-1 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 205900 2RCS'REV21-SHRD.SUP-2 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 205900 2RCS'REV21-SHRD.SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 150 DEG AXIS VT-3 E-1A 205900 2RCS'REV21-SHRD.SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 205900 2RCS'REV21-SHRD.SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 205900 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS'REV21-NUT-55	196500	2RCS*P21A-LIG	. 1	B-G-1	B6.190	FLANGE LIGAMENTS	VT-1	E-1C
205700 2RCS'REV21-CAVLIN-A 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205800 2RCS'REV21-CAVLIN-B 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205800 2RCS'REV21-CAVLIN-C 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205000 2RCS'REV21-CAVLIN-D 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205000 2RCS'REV21-CAVLIN-D 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205000 2RCS'REV21-CAVLIN-E 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205000 2RCS'REV21-CAVLIN-E 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A 205000 2RCS'REV21-CONOSEAL-47 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205000 2RCS'REV21-CONOSEAL-47 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205000 2RCS'REV21-CONOSEAL-51 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205000 2RCS'REV21-CONOSEAL-51 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 205000 2RCS'REV21-SINDSUP-1 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-SHRDSUP-2 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-SHRDSUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 20 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-SHRDSUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 20 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-SHRDSUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 20 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-SHRDSUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 20 DEG AXIS VT-3 E-1A 205000 2RCS'REV21-NUT-39 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS'REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2224000 2RCS'REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2224000 2RCS'REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2224000 2RCS'REV21-NUT-55 1 B-G-1 B6.10	196600	2RCS*P21A-SUPP	1	F-A	F1.40E	INTERMEDIATE SUPPORT (INCL CS-1,-2,-3)	VT-3	E-1C
205800 2RCS*REV21-CAVLIN-B 1	203300	2RCS*P21C(S)-B01 TO B12	, 1	B-G-2	B7.60	SEAL HOUSING BOLT	VT-1	E-1C
205900 2RCS*REV21-CAVLINC	205700	2RCS*REV21-CAVLIN-A	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
206000 2RCS*REV21-CAVLINE 1 F-A F1.40E CAVITY LINER LUGS VT-3 E-1A	205800	2RCS*REV21-CAVLIN-B	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
205100 2RCS*REV21-CAVLIN-E	205900	2RCS*REV21-CAVLIN-C	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
206200 2RCS*REV21-CAVLIN-F 1	206000	2RCS*REV21-CAVLIN-D	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
200300 2RCS*REV21-CONOSEAL-47 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A	206100	2RCS*REV21-CAVLIN-E	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
200400 2RCS*REV21-CONOSEAL-49 1 8-G-2 87.80 CONOSEAL ASSY VT-1 E-1A	206200	2RCS*REV21-CAVLIN-F	1	F-A	F1.40E	CAVITY LINER LUGS	VT-3	E-1A
206500 2RCS*REV21-CONOSEAL-51 1 B-G-2 B7.80 CONOSEAL ASSY VT-1 E-1A 206900 2RCS*REV21-SHRDNSUP-1 1 B-E B4.12 CRDM NOZZLES VT-2 E-1A 208910 2RCS*REV21-SHRDNSUP-1 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 208920 2RCS*REV21-SHRDNSUP-2 1 F-A F1.40E COOLING SHROUD SUP LUG 150 DEG AXIS VT-3 E-1A 208930 2RCS*REV21-SHRDNSUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 209800 2RCS*REV21-NUT-39 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222200 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2222600 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222	206300	2RCS*REV21-CONOSEAL-47	1	B-G-2	B7.80	CONOSEAL ASSY	VT-1	E-1A
208900 2RCS*REV21-CRDM NOZZLES 1 B-E B4.12 CRDM NOZZLES VT-2 E-1A 208910 2RCS*REV21-SHRD:SUP-1 1 F-A F1.40E COOLING SHRQUD SUP LUG 30 DEG AXIS VT-3 E-1A 208920 2RCS*REV21-SHRD:SUP-2 1 F-A F1.40E COOLING SHRQUD SUP LUG 150 DEG AXIS VT-3 E-1A 208930 2RCS*REV21-INIST.NOZZLES 1 B-E B4.13 INSTRUMENTATION NOZZLES VT-2 E-1A 202900 2RCS*REV21-NUT-39 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2022500 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2022500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 202200 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 2022900 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 <	206400	2RCS*REV21-CONOSEAL-49	1	B-G-2	B7.80	CONOSEAL ASSY	VT-1	E-1A
208910 2RCS*REV21-SHRD:SUP-1 1 F-A F1.40E COOLING SHROUD SUP LUG 30 DEG AXIS VT-3 E-1A 208920 2RCS*REV21-SHRD:SUP-2 1 F-A F1.40E COOLING SHROUD SUP LUG 150 DEG AXIS VT-3 E-1A 208930 2RCS*REV21-SHRD:SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 209600 2RCS*REV21-INST NOZZLES 1 B-E B4.13 INSTRUMENTATION NOZZLES VT-2 E-1A 222300 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222600 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223	206500	2RCS*REV21-CONOSEAL-51	1	B-G-2	B7.80	CONOSEAL ASSY	VT-1	E-1A
208920 2RCS*REV21-SHRD:SUP-2 1 F-A F1.40E COOLING SHROUD SUP LUG 150 DEG AXIS VT-3 E-1A 208930 2RCS*REV21-SHRD:SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 209600 2RCS*REV21-INIT-39. 1 B-E B4.13 INSTRUMENTATION NOZZLES VT-2 E-1A 222300 2RCS*REV21-NUT-39. 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-N	206900	2RCS*REV21-CRDM NOZZLES	. 1	B-E	B4.12	CRDM NOZZLES	VT-2	E-1A
208930 2RCS*REV21-SHRD-SUP-3 1 F-A F1.40E COOLING SHROUD SUP LUG 270 DEG AXIS VT-3 E-1A 209600 2RCS*REV21-INST:NOZZLES 1 B-E B4.13 INSTRUMENTATION NOZZLES VT-2 E-1A 222300 2RCS*REV21-NUT-39 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 <td>208910</td> <td>2RCS*REV21-SHRD-SUP-1</td> <td>1</td> <td>F-A</td> <td>F1.40E</td> <td>COOLING SHROUD SUP LUG 30 DEG AXIS</td> <td>VT-3</td> <td>E-1A</td>	208910	2RCS*REV21-SHRD-SUP-1	1	F-A	F1.40E	COOLING SHROUD SUP LUG 30 DEG AXIS	VT-3	E-1A
209600 2RCS*REV21-INST.NOZZLES 1 B-E B4.13 INSTRUMENTATION NOZZLES VT-2 E-1A 222300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-49 1 B-G-1	208920	2RCS*REV21-SHRD-SUP-2	1	F-A	F1.40E	COOLING SHROUD SUP LUG 150 DEG AXIS	VT-3	E-1A
222300 2RCS*REV21-NUT-39. 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222400 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-50 <td< td=""><td>208930</td><td>2RCS*REV21-SHRD-SUP-3</td><td> 1</td><td>F-A</td><td>F1.40E</td><td>COOLING SHROUD SUP LUG 270 DEG AXIS</td><td>VT-3</td><td>E-1A</td></td<>	208930	2RCS*REV21-SHRD-SUP-3	1	F-A	F1.40E	COOLING SHROUD SUP LUG 270 DEG AXIS	VT-3	E-1A
222400 2RCS*REV21-NUT-40 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222600 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-50 1 B-G-1 B6.10	209600	2RCS*REV21-INST NOZZLES	ş: 1	в-Е 🦠	B4.13	INSTRUMENTATION NOZZLES	VT-2	E-1A
222500 2RCS*REV21-NUT-41 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222600 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-551 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-552 <t< td=""><td>222300</td><td>2RCS*REV21-NUT-39</td><td>1 ·</td><td>B-G-1</td><td>B6.10</td><td>BOLTING</td><td>VT-1</td><td>E-1A</td></t<>	222300	2RCS*REV21-NUT-39	1 ·	B-G-1	B6.10	BOLTING	VT-1	E-1A
222600 2RCS*REV21-NUT-42 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-55	222400	2RCS*REV21-NUT-40	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
222700 2RCS*REV21-NUT-43 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54	222500	2RCS*REV21-NUT-41	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
222800 2RCS*REV21-NUT-44 1 B-G-1 B6.10 BOLTING VT-1 E-1A 222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55	222600	2RCS*REV21-NUT-42	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
222900 2RCS*REV21-NUT-45 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 24000 2RCS*REV21-NUT-56 1	222700	2RCS*REV21-NUT-43	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223000 2RCS*REV21-NUT-46 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 24000 2RCS*REV21-NUT-56 1	222800	2RCS*REV21-NUT-44	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223100 2RCS*REV21-NUT-47 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	222900	2RCS*REV21-NUT-45	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223200 2RCS*REV21-NUT-48 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	223000	2RCS*REV21-NUT-46	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223300 2RCS*REV21-NUT-49 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	223100	2RCS*REV21-NUT-47	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223400 2RCS*REV21-NUT-50 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	223200	2RCS*REV21-NUT-48	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223500 2RCS*REV21-NUT-51 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	223300	2RCS*REV21-NUT-49	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A	223400	2RCS*REV21-NUT-50	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223600 2RCS*REV21-NUT-52 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A		2RCS*REV21-NUT-51	1	B-G-1	B6.10	BOLTING	VT-1	E-1A
223700 2RCS*REV21-NUT-53 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A			1					
223800 2RCS*REV21-NUT-54 1 B-G-1 B6.10 BOLTING VT-1 E-1A 223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A			1				•	
223900 2RCS*REV21-NUT-55 1 B-G-1 B6.10 BOLTING VT-1 E-1A 224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A		*	1					
224000 2RCS*REV21-NUT-56 1 B-G-1 B6.10 BOLTING VT-1 E-1A			1					
			1			BOLTING		
	224100	2RCS*REV21-NUT-57	1	B-G-1	B6.10	BOLTING	VT-1	E-1A

APPENDIX I - 2R12 CODE EXAMINATIONS

SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION		NDE METHO	o iso no
224200	2RCS*REV21-NUT-58	1	B-G-1	B6.10	BOLTING		VT-1	E-1A
228100	2RCS*REV21-STUD-39	1	B-G-1	B6.30	BOLTING		. UT	E-1A
228200	2RCS*REV21-STUD-40	1	B-G-1	B6.30	BOLTING		UT	E-1A
228300	2RCS*REV21-STUD-41	1	B-G-1	B6.30	BOLTING		UT	E-1A
228400	2RCS*REV21-STUD-42	1	B-G-1	B6.30	BOLTING		UT	E-1A
228500	2RCS*REV21-STUD-43	[.] 1	B-G-1	B6.30	BOLTING		UT	E-1A
228600	2RCS*REV21-STUD-44	1	B-G-1	B6.30	BOLTING		UŢ	E-1A
228700	2RCS*REV21-STUD-45	1	B-G-1	B6.30	BOLTING		UT	E-1A
228800	2RCS*REV21-STUD-46	1	B-G-1	B6.30	BOLTING		UT	E-1A
228900	2RCS*REV21-STUD-47	1	B-G-1	B6.30	BOLTING		UT	E-1A
229000	2RCS*REV21-STUD-48	1	B-G-1	B6.30	BOLTING		UT	E-1A
229100	2RCS*REV21-STUD-49	1	B-G-1	B6.30	BOLTING	•	UT	E-1A
229200	2RCS*REV21-STUD-50	1	B-G-1	B6.30	BOLTING		UT	E-1A
229300	2RCS*REV21-STUD-51	1	B-G-1	B6.20	BOLTING		VT-1	E-1A
229400	2RCS*REV21-STUD-52	1	B-G-1	B6.30	BOLTING		UT	E-1A
229500	2RCS*REV21-STUD-53	1	B-G-1	B6.30	BOLTING		UT	E-1A
229600	2RCS*REV21-STUD-54	1	B-G-1	B6.30	BOLTING		UT	E-1A
229700	2RCS*REV21-STUD-55	- 1	B-G-1	B6.30	BOLTING		UT	E-1A
229800	2RCS*REV21-STUD-56	1.	B-G-1	B6.30	BOLTING		UT	E-1A
229900	2RCS*REV21-STUD-57	. 1	B-G-1	B6.30	BOLTING	11 ×	UT	E-1A
230000	2RCS*REV21-STUD-58	. 1	B-G-1	B6.30	BOLTING	• .	UT	E-1A
233900	2RCS*REV21-WASHER-39	. 1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234000	2RCS*REV21-WASHER-40	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234100	2RCS*REV21-WASHER-41	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234200	2RCS*REV21-WASHER-42	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234300	2RCS*REV21-WASHER-43	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234400	2RCS*REV21-WASHER-44	1 ,	B-G-1	B6.50	BOLTING		VT-1	E-1A
234500	2RCS*REV21-WASHER-45	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234600	2RCS*REV21-WASHER-46	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234700	2RCS*REV21-WASHER-47	1	B-G-1	B6.50	BOLTING"		VT-1	E-1A
234800	2RCS*REV21-WASHER-48	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
234900	2RCS*REV21-WASHER-49	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235000	2RCS*REV21-WASHER-50	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235100	2RCS*REV21-WASHER-51	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235200	2RCS*REV21-WASHER-52	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235300	2RCS*REV21-WASHER-53	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235400	2RCS*REV21-WASHER-54	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235500	2RCS*REV21-WASHER-55	1	B-G-1	B6.50	BOLTING		VT-1	E-1A
235600	2RCS*REV21-WASHER-56	1	B-G-1	B6.50	BOLTING		VT-1	E-1A

A CONTRACTOR OF THE CONTRACTOR

APPENDIX I - 2R12 CODE EXAMINATIONS

SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
235700	2RCS*REV21-WASHER-57	1	B-G-1	B6.50	BOLTING	VT-1	E-1A
235800	2RCS*REV21-WASHER-58	1	B-G-1	B6.50	BOLTING	VT-1	E-1A
235831	2RCS*REV21-SUP-SAD-1	1	F-A	F1.40E	A LOOP OUTLET NOZZLE SADDLE	VT-3	E-1A
235832	2RCS*REV21-SUP-SAD-2	1	F-A	F1.40E	A LOOP INLET NOZZLE SADDLE	VT-3	E-1A
235833	2RCS*REV21-SUP-SAD-3	1	F-A	F1.40E	B LOOP OUTLET NOZZLE SADDLE	VT-3	E-1A
235834	2RCS*REV21-SUP-SAD-4	1	F-A	F1.40E	B LOOP INLET NOZZLE SADDLE	VT-3	E-1A
235835	2RCS*REV21-SUP-SAD-5	1	F-A	F1.40E	C LOOP OUTLET NOZZLE SADDLE	VT-3	E-1A
235836	2RCS*REV21-SUP-SAD-6	1	F-A	F1.40E	C LOOP INLET NOZZLE SADDLE	VT-3	E-1A
235839	2RCS*REV21-SUP-SKT	. 1	F-A	F1.40E	REACTOR VESSEL SUPPORT SKIRT	VT-3	E-1A
247800	2RHS-MOV702A-B-1 TO 18	1	B-G-2	B7.70	2RHS-MOV702A STUDS AND NUTS	VT-1	107120
248700	2RHS-MOV701A-B-1 TO 18	1	B-G-2	B7.70	2RHS-MOV701A STUDS AND NUTS	VT-1	107120
249100	2RHS-MOV702B-B-1 TO 18	1	B-G-2	B7.70	2RHS-MOV702B STUDS AND NUTS	VT-1	107120
250400	2RHS-MOV701B-B-1 TO 18	1	B-G-2	B7.70	2RHS-MOV701B STUDS AND NUTS	VT-1	107120
250600	2SIS-142-B-1 TO 18	1	B-G-2	B7.70	2SIS-142 STUDS AND NUTS	VT-1	108202
252300	2SIS-PSST608	1	F-A	F1.10T	SUPPORT	VT-3	108202
252900	2RHS-MOV720B-B-1 TO 18	1	B-G-2	B7.70	2RHS-MOV720B STUDS AND NUTS	VT-1	108202
253200	2SIS-PSSH012A	1	F-A	F1.10S	SUPPORT	VT-3	108202
253400	2SIS-069-F804	1	B-K :	B10.20	WELDED ATTACHMENT FOR 2SIS-PSSHO	012A 🚉 🗀 PT	108202
253500	2SIS-069-F805	.1	B-K	B10.20	WELDED ATTACHMENT FOR 2SIS-PSSHO)12A PT	108202
254400	2SIS-141-B-1:TO 18	1	B-G-2	B7.70	2SIS-141 STUDS AND NUTS	√1-1	108202
254600	2SIS-287-1A	1	R-A	R1.11	PIPE WELD	ad Σef UT	108202
255500	2SIS-148-B-1 TO 18	1	B-G-2	B7.70	2SIS-148 STUDS AND NUTS	VT-1	108204
259100	2SIS-151-B-1 TO 18	1	B-G-2	B7.70	2SIS-151 STUDS AND NUTS	VT-1	108205
259800	2SIS-147-B-1 TO 18	1	B-G-2	B7.70	2SIS-147 STUDS AND NUTS	VT-1	108207
263700	2SIS-145-B-1 TO 18	1	B-G-2	B7.70	2SIS-145 STUDS AND NUTS	VT-1	108207
283900	2SIS-PSR536	1	F-A	F1.10R	SUPPORT	VT-3	110791
284500	2SIS-PSR553X	1	F-A	F1.10R	SUPPORT	VT-3	110791
302900	2SIS-271-F04	1	R-A	R1.11	PIPE WELD	UT	110829
303400	2SIS-PSSH100	1	F-A	F1.10S	SUPPORT	VT-3	110829
303600	2SIS-PSR101X	1	F-A	F1.10R	SUPPORT	VT-3	110829
304300	2SIS-271-F06A	1	R-A	R1.11	PIPE WELD	UT	110829
305200	2SIS-PSA103X	1	F-A	F1.10A	SUPPORT	VT-3	110830
306200	2SIS-PSR105X	1	F-A	F1.10R	SUPPORT	VT-3	110830
307500	2SIS-025-1B	1	R-A	R1.11	PIPE WELD	UT	110830
307650	2BDG-68-F-12	2	R-A	R1.12	SOCKET WELD	VT-2	110447
314050	2CHS-434-F02	2	R-A	R1.12	SOCKET WELD	VT-2	108301
317450	2CHS-433-F02	2	R-A	R1.12	SOCKET WELD	VT-2	108302
318900	2CHS-070-F06	2	R-A	R1.11	BUTT WELD	UT	108302
324650	2CHS-291-F403	. 2	R-A	R1.12	SOCKET WELD	VT-2	108304

SUMMARY	COMPID		CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
325800	2CHS-320-F404		. 2	R-A	R1.12	SOCKET WELD	VT-2	108304
332250	2CHS-124-F409		2	R-A	R1.12	SOCKET WELD	VT-2	108306
342500	2CHS-207-F02		2	R-A	R1.12	SOCKET WELD	VT-2	108313
371900	2CHS-PSR203		2	F-A	F1.20R	SUPPORT	VT-3	108342
373850	2CHS-056-F13		2	R-A	R1.12	SOCKET WELD	VT-2	410-766
380900	2CHS-067-2A		2	R-A	R1.11	BUTT WELD	UT	108344
381300	2CHS-PSR813		2	F-A	F1.20R	SUPPORT	VT-3	108344
389400	2CHS-278-F400		2	R-A	R1.12	SOCKET WELD	VT-2	108396
389600	2CHS-278-F401		2	R-A	R1.12	SOCKET WELD	VT-2	108396
391010	2CHS-357-F-12-C		2	R-A	R1.11	BUTT WELD	UT	263020
392900	2CHS-070-F512	•	2	R-A	R1.11	BUTT WELD	UT	108397
393500	2CHS-275-F400	•	2	R-A	R1.12	SOCKET WELD	VT-2	108397
393700	2CHS-275-F401		2	R-A	R1.12	SOCKET WELD	VT-2	108397
394400	2CHS-276-F502A		2	R-A	R1.11	BUTT WELD	UT	108397
397700	2CHS-272-F400	,	2	R-A	R1.12	SOCKET WELD	VT-2	108398
397900	2CHS-272-F401		2	R-A	R1.12	SOCKET WELD	VT-2	108398
434700	2CHS-149-F25	v	2	R-A	R1.12	SOCKET WELD	VT-2	110298
462100	2CHS*P21A-A-3	the state of the s	2	C-C	C3.30	WELDED ATTACHMENT FOR WS-2	PT	E-2H
462200G	2CHS*P21A-A-4	, Forest S	2	C-C	C3.30	WELDED ATTACHMENT FOR WS-1	PT	E-2H
466200	2FWS-PSSH002	100	2	F-A	F1.20S	SUPPORT	VT-3	101702
478400	2MSS-171-F01	e e e e e e e e e e e e e e e e e e e	2	R-A	R1.11	BUTT WELD	UT	100208
484200	2MSS-PSR003		2.	F-A	F1.20R	SUPPORT	VT-3	100210
486000	2MSS-PSSH005A		2	F-A	F1.20S	SUPPORT	VT-3	100211
500200	2QSS-PSST734		2	F-A	F1.20T	SUPPORT	VT-3	107932
500300	2QSS-PSR727	•	. 2	F-A	F1.20R	SUPPORT	VT-3	107932
500700	2QSS-PSST176A		2	F-A	F1.20T	SUPPORT	VT-3	107933
500760	2QSS-234-F14		2	R-A	R1.12	SOCKET WELD	VT-2	520-118
500900	2QSS-001-F506		2	R-A	R1.11	BUTT WELD	UT	107933
501600	2QSS-1 -4AC		2	R-A	R1.11	BUTT WELD	UT	107933
502970	2QSS*P21B-SUP		2	F-A	F1.40E	PUMP SUPPORT	VT-3	107933
505450	2QSS-236-F20		2	R-A	R1.12	SOCKET WELD	VT-2	520-114
505500	2QSS-2 -3AA		2.	R-A	R1.11	BUTT WELD	UT	107934
507150	2QSS-2 -5C		2	R-A	R1.11	BUTT WELD	UT	107934
507450	2QSS-117-F402		2	R-A	R1.12	SOCKET WELD	VT-2	107935
511014	2QSS-118-F02		2	R-A	R1.12	SOCKET WELD	VT-2	107938
528600	2RCS*SG21B-C-05		2	C-A	C1.10	SHELL CIRCUMFERENTIAL WELD # 5	UT	E-1B
528700	2RCS*SG21B-C-06		2	C-A	C1.10	SHELL CIRCUMFERENTIAL WELD # 6	UT	E-1B
563500	2RHS-PSST506X		2	F-A	F1.20T	SUPPORT	VT-3	108208
566500	2RHS-PSR453		2	F-A	F1.20R	SUPPORT	VT-3	110723

190700	SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
581200 2RSS-004-F830 2 C-C G3.20 WELDED ATTACHMENT FOR 2RSS-PSSH454A PT 107950 581300 2RSS-PSSH454B 2 F-A F1.20S SUPPORT VT-3 107950 586100 2RSS-PSR10B 2 F-A F1.20S SUPPORT VT-3 107952 586100 2RSS-PSSH122Y 2 F-A F1.20S SUPPORT VT-3 107968 597500 2RSS-098-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597500 2RSS-098-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-098-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-098-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-221AW-12 2 F-A F1.40E MCCHANICAL RESTRAINT VT-3 E-2L 613400 </td <td>570700</td> <td>2RHS-PSR750</td> <td>2</td> <td>F-A</td> <td>F1.20R</td> <td>SUPPORT</td> <td>VT-3</td> <td>110728</td>	570700	2RHS-PSR750	2	F-A	F1.20R	SUPPORT	VT-3	110728
581300 2RSS-PSSH454B 2 F-A F1.20S SUPPORT VT-J 107950 561400 2RSS-064-631 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH454B PT 107950 597400 2RSS-PSR108 2 F-A F1.20S SUPPORT VT-3 107963 597400 2RSS-98SH122Y 2 F-A F1.20S SUPPORT VT-3 107968 597600 2RSS-009-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-12AW-13 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-12AW-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613800	581100	2RSS-PSSH454A	2	F-A	F1.20S	SUPPORT	VT-3	107950
881400 2RSS-004-F831 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH454B PT 107950 586100 2RSS-PSR108 2 F.A F1.20S SUPPORT VT-3 107962 597600 2RSS-POSH122Y 2 F.A F1.20S SUPPORT VT-3 107968 597600 2RSS-009-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-09-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-09-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-09-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-09-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-09-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968	581200	2RSS-004-F830	2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH454A	PT	107950
586100 2RSS-PSR108 2 F.A F1.20R SUPPORT VT-3 107952 597400 2RSS-PSSH122Y 2 F.A F1.20S SUPPORT VT-3 107962 597500 2RSS-009-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-009-F802 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-509-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-5214-W-11 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-5214-W-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613800 2RSS-5214-W-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613900 2RSS-5214-W-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD	581300	2RSS-PSSH454B	2	F-A	F1.20S	SUPPORT	VT-3	107950
597400 2RSS-PSSH122Y 2 F-A F1.20S SUPPORT VT-3 107968 597500 2RSS-009-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-124-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-124-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613850 2RSS-124-W-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS-124-W-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L	581400	2RSS-004-F831	2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH454B	PT	107950
597500 2RSS-009-F801 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597600 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-121A-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-121A-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613850 2RSS-121A-W-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS-121A-W-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS-121A-W-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3	586100	2RSS-PSR108	2	F-A	F1.20R	SUPPORT	VT-3	107952
597600 2RSS-009-F802 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597700 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-12R-WS-1 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-12R-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-12R-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS-12R-M-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613800 2RSS-12R-M-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613800 2RSS-12R-M-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS-12R-M-13A 2 C-B C2.11 NOZZLE WELD VT-3 E-2L	597400	2RSS-PSSH122Y	2	F-A	F1.20S	SUPPORT	VT-3	107968
597700 2RSS-009-F803 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 597800 2RSS-009-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS-E21A-WS-1 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613600 2RSS-E21A-W-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS-E21A-N-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS-E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS-E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS-E21A-N-13A 2 C-B C2.11 NOZZLE WELD VT-3 E-2L 617270 2RSS-E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L	597500	2RSS-009-F801	2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT	107968
997800 2RSS-099-F804 2 C-C C3.20 WELDED ATTACHMENT FOR 2RSS-PSSH122Y PT 107968 613400 2RSS*E21A-WS-1 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS*E21A-N-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613850 2RSS*E21A-N-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613800 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613800 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-MS-2 C-B C2.11 NOZZLE WELD VT-3 E-2L 617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PRT E-2L 617250 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 617250 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621100 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621100 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622200 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622200 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622200 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD	597600	2RSS-009-F802	· 2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT	107968
613400 2RSS*E21A-WS-1 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613600 2RSS*E21A-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613600 2RSS*E21A-N-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613850 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-WS-2 2 F-A F1.40E STRUCTURAL SUPPORT VT-3 E-2L 617270 2RSS*E21A-W-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-W-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-W-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621110 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-A-4 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 62200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 62200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-11 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 62200 2RSS*P21A-C-19 2 C-G C6.1	597700	2RSS-009-F803.	2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT	107968
613800 2RSS*E21A-WS-3 2 F-A F1.40E MECHANICAL RESTRAINT VT-3 E-2L 613800 2RSS*E21A-N-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613800 2RSS*E21A-N-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613900 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613900 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613900 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-N-24A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-N-24 2 C-B C2.11 NOZZLE WELD PT E-2L 617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621120 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-A-4 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 62200 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 62200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622400 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622400 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-13 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 VT-2 E-2M 622600 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #1 PT E-2M 622600 2RSS*P	597800	2RSS-009-F804	2	C-C	C3.20	WELDED ATTACHMENT FOR 2RSS-PSSH122Y	PT	107968
613800 2RSS*E21A-N-12 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613850 2RSS*E21A-N-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613950 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-W-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-W-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 617250 2RSS*E21A-W-13A 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621100	613400	2RSS*E21A-WS-1	2	F-A	F1.40E	MECHANICAL RESTRAINT	VT-3	E-2L
613850 2RSS*E21A-N-12A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD PT E-2L 613900 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-W-32 2 F-A F1.40E STRUCTURAL SUPPORT VT-3 E-2L 617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621110 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-13	613600	2RSS*E21A-WS-3	2	F-A	F1.40E	MECHANICAL RESTRAINT	VT-3	E-2L
613900 2RSS*E21A-N-13 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 613950 2RSS*E21A-N-13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-WS-2 2 F-A F1.40E STRUCTURAL SUPPORT VT-3 E-2L 617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-C-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-4 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622500 2RSS*P	613800	2RSS*E21A-N-12	2 .	С-В	C2.11	NOZZLE TO SHELL REINF PAD WELD	VT-3	E-2L
613950 2RSS*E21A-N:13A 2 C-B C2.11 NOZZLE TO SHELL REINF PAD WELD VT-3 E-2L 614000 2RSS*E21A-C:17 2 F-A F1.40E STRUCTURAL SUPPORT VT-3 E-2L 617250 2RSS*E21A-C:17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C:18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-A:1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621120 2RSS*P21A-A:2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-42 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 622200 2RSS*P21A-C-409 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622400 2RSS*P21A-C-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P	613850	2RSS*E21A-N-12A	2	С-В	C2.11	NOZZLE TO SHELL REINF PAD WELD	PT	E-2L
614000 2RSS*E21A-WS-2. 2 F-A F1.40E STRUCTURAL SUPPORT VT-3 E-2L 617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*P21A-C-18 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621110 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-A-4 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 622200 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622500 2RSS*P21A-C-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622600 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M	613900	2RSS*E21A-N-13	2	C-B	C2.11	NOZZLE TO SHELL REINF PAD WELD	VT-3	E-2L
617250 2RSS*E21A-C-17 2 C-B C2.11 NOZZLE WELD PT E-2L 617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621120 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-09 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 622200 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622400 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622600 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622900 2RSS*P21A-C-16 <td>613950</td> <td>2RSS*E21A-N-13A</td> <td>2</td> <td>C-B</td> <td>C2.11</td> <td>NOZZLE TO SHELL REINF PAD WELD</td> <td>VT-3</td> <td>E-2L</td>	613950	2RSS*E21A-N-13A	2	C-B	C2.11	NOZZLE TO SHELL REINF PAD WELD	VT-3	E-2L
617270 2RSS*E21A-C-18 2 C-B C2.11 NOZZLE WELD PT E-2L 621110 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621120 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-L-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 <td>614000</td> <td>2RSS*E21A-WS-2</td> <td>2</td> <td>F-A</td> <td>F1.40E</td> <td>STRUCTURAL SUPPORT</td> <td>VT-3</td> <td>E-2L</td>	614000	2RSS*E21A-WS-2	2	F-A	F1.40E	STRUCTURAL SUPPORT	VT-3	E-2L
621110 2RSS*P21A-A-1 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621120 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622200 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-C-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622600 2RSS*P21A-C-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622800 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 623000 2RSS*P	617250	2RSS*E21A-C-17	2	C-B	C2.11	NOZZLE WELD	PT	E-2L
621120 2RSS*P21A-A-2 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 621140 2RSS*P21A-A-4 2 C-C C3.30 WELDED ATTCHMENT - GUSSET PLATE PT E-2M 622200 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622300 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-C-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #12 VT-2 E-2M 622600 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-C-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623000 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623000 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.4	617270	2RSS*E21A-C-18	2 .	C-B	C2.11	NOZZĽE WELD	PT	E-2L
621140	621110	2RSS*P21A-A-1	2	C-C	C3.30	WELDED ATTCHMENT - GUSSET PLATE	PΤ	E-2M
622200 2RSS*P21A-C-09 2 C-G C6.10 PUMP CASING WELD #9 VT-2 E-2M 622300 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-L-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #12 VT-2 E-2M 622600 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 623000 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 623100 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623200 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #20 PT </td <td>621120</td> <td>2RSS*P21A-A-2</td> <td>2</td> <td>C-C</td> <td>C3.30</td> <td>WELDED ATTCHMENT - GUSSET PLATE</td> <td>PT</td> <td>E-2M</td>	621120	2RSS*P21A-A-2	2	C-C	C3.30	WELDED ATTCHMENT - GUSSET PLATE	PT	E-2M
622300 2RSS*P21A-C-10 2 C-G C6.10 PUMP CASING WELD #10 VT-2 E-2M 622400 2RSS*P21A-L-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #12 VT-2 E-2M 622600 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623400 2RSS*P21A-N-20	621140	2RSS*P21A-A-4	2	C-C	C3.30	WELDED ATTCHMENT - GUSSET PLATE	PT	E-2M
622400 2RSS*P21A-L-11 2 C-G C6.10 PUMP CASING WELD #11 VT-2 E-2M 622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #12 VT-2 E-2M 622600 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-W-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623800 2RSS*P21A-W-S-1	622200	2RSS*P21A-C-09	2	C-G	C6.10	PUMP CASING WELD # 9	VT-2	E-2M
622500 2RSS*P21A-C-12 2 C-G C6.10 PUMP CASING WELD #12 VT-2 E-2M 622600 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-WS-1 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623800 2RSS*P21A-WS-1 <td< td=""><td>622300</td><td>2RSS*P21A-C-10</td><td>.2</td><td>C-G</td><td>C6.10</td><td>PUMP CASING WELD #10</td><td>VT-2</td><td>E-2M</td></td<>	622300	2RSS*P21A-C-10	.2	C-G	C6.10	PUMP CASING WELD #10	VT-2	E-2M
622600 2RSS*P21A-L-13 2 C-G C6.10 PUMP CASING WELD #13 VT-2 E-2M 622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3	622400	2RSS*P21A-L-11	2	C-G	C6.10	PUMP CASING WELD #11	VT-2	E-2M
622700 2RSS*P21A-C-15 2 C-G C6.10 PUMP CASING WELD #15 VT-2 E-2M 622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-WS-1 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	622500	2RSS*P21A-C-12	2	C-G	C6.10	PUMP CASING WELD #12	VT-2	E-2M
622800 2RSS*P21A-L-16 2 C-G C6.10 PUMP CASING WELD #16 PT E-2M 622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	622600	2RSS*P21A-L-13	2	C-G	C6.10	PUMP CASING WELD #13	VT-2	E-2M
622900 2RSS*P21A-C-17 2 C-G C6.10 PUMP CASING WELD #17 PT E-2M 623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	622700	2RSS*P21A-C-15	2	C-G	C6.10	PUMP CASING WELD #15	VT-2	E-2M
623000 2RSS*P21A-C-18 2 C-G C6.10 PUMP CASING WELD #18 PT E-2M 623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	622800	2RSS*P21A-L-16	2	C-G	C6.10	PUMP CASING WELD #16	PT	E-2M
623100 2RSS*P21A-C-19 2 C-G C6.10 PUMP CASING WELD #19 PT E-2M 623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	622900	2RSS*P21A-C-17	2	C-G	C6.10	PUMP CASING WELD #17	PT	E-2M
623200 2RSS*P21A-N-20 2 C-G C6.10 PUMP CASING WELD #20 PT E-2M 623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	623000	2RSS*P21A-C-18	2	C-G	C6.10	PUMP CASING WELD #18	PT	E-2M
623400 2RSS*P21A-L-22 2 C-G C6.10 PUMP CASING WELD #22 PT E-2M 623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	623100	2RSS*P21A-C-19	2	C-G	C6.10	PUMP CASING WELD #19	PT	E-2M
623800 2RSS*P21A-WS-1 2 F-A F1.40E PUMP SUPPORT NO. 1 - SEISMIC LUGS VT-3 E-2M 623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	623200	2RSS*P21A-N-20	2	C-G	C6.10	PUMP CASING WELD #20	PT	E-2M
623900 2RSS*P21A-WS-2 2 F-A F1.40E PUMP SUPPORT NO. 2 - SEISMIC LUGS VT-3 E-2M 624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	623400	2RSS*P21A-L-22	2	C-G	C6.10	PUMP CASING WELD #22	PT	E-2M
624000 2RSS*P21A-WS-3 2 F-A F1.40E PUMP SUPPORT NO. 3 - W/ MNTNG PLATE VT-3 E-2M	623800	2RSS*P21A-WS-1	2	F-A	F1.40E	PUMP SUPPORT NO. 1 - SEISMIC LUGS	VT-3	E-2M
	623900	2RSS*P21A-WS-2	2	F-A	F1.40E	PUMP SUPPORT NO. 2 - SEISMIC LUGS	VT-3	E-2M
643350 2SIS-305-F-02 2 R-A R1.12 SOCKET WELD VT-2 108103	624000	2RSS*P21A-WS-3	2	F-A	F1.40E	PUMP SUPPORT NO. 3 - W/ MNTNG PLATE	VT-3	E-2M
	643350	2SIS-305-F-02	2	R-A	R1.12	SOCKET WELD	VT-2	108103

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SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
649700	2SIS-005-F526	2	R-A	R1.11	BUTT WELD	UT	108105
660100	2SIS-PSSH359Y	. 2	F-A	F1.20S	SUPPORT	VT-3	108108
669250	2SIS-167-F-01	2	R-A	R1.12	SOCKET WELD	VT-2	108111
674900	2SIS-PSR017	2	F-A	F1.20R	SUPPORT	VT-3	108307
676100	2SIS-PSR012	2	F-A	F1.20R	SUPPORT	VT-3	108307
679500	2SIS-248-1AA	2	R-A	R1.11	BUTT WELD	UT	108311
680200	2SIS-PSR083Y	2	F-A	F1.20R	SUPPORT	VT-3	108311
681350	2SIS-392-F11	2	R-A	R1.12	SOCKET WELD	VT-2	410-548
681600	2SIS-PSR020	2	F-A	F1.20R	SUPPORT	VT-3	108311
692300	2SIS-PSR064	2	F-A	F1.20R	SUPPORT	VT-3	108347
697200	2SIS-PSA004	2	F-A	F1.20A	SUPPORT	VT-3	108350
697700	2SIS-PSR002	2	F-A	F1.20R	SUPPORT	VT-3	108350
715200	2SIS-PSR137Y	2	F-A	F1.20R	SUPPORT	VT-3	109931
717050	2SIS-093-F401	2	R-A	R1.12	SOCKET WELD	VT-2	109932
720500	2SIS-PSR155	2	F-A	F1.20R	SUPPORT	VT-3	109933
722600	2SIS-PSST159	2	F-A	F1.20T	SUPPORT	VT-3	109934
724100	2SIS-102-2AA	2	R-A	~ R1.11	BUTT WELD	UT	109935
725150	2SIS-393-F23	2	R-A	√;	SOCKET WELD	VT-2	510-258
735100	2SIS-PSR089R	2	F-A	F1.20R	SUPPORT	VT-3	110155
7367.00	2SIS-PSA282X	2	F-A	F1.20A	SUPPORT	VT-3	110165
737450	2SIS-215-F21A	2	R-A	R1.12	SOCKET WELD	VT-2	110165
741100	2SIS-PSR642	. 2	F-A	F1.20R	SUPPORT	VT-3	110174
749000	2SIS-104-14	2	R-A	R1.12	SOCKET WELD	VT-2	110178
751450	2SIS-377-17	2	R-A	R1.12	SOCKET WELD	VT-2	110274
755900	2SIS-PSR304R	2	F-A	F1.20R	SUPPORT	VT-3	110303
759800	2SIS-011-F04	2	R-A	R1.11	BUTT WELD	UT	1107124
767400	2SIS-PSST037B	2	F-A	F1.20T	SUPPORT	VT-3	1107129
768100	2SIS-PSR038A	2	F-A	F1.20R	SUPPORT	VT-3	1107130
770100	2SIS-PSA220	2	F-A	F1.20A	SUPPORT	VT-3	1107131
771050	2SIS-365-2	2	R-A	R1.12	SOCKET WELD	VT-2	110-009
781300	2SIS-PSR371X	2	F-A	F1.20R	SUPPORT	VT-3	110793
781400	2SIS-009-F802	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
781500	2SIS-009-F803	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
781600	2SIS-009-F804	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
781700	2SIS-009-F805	. 2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PΤ	110793
781800	2SIS-009-F806	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
781900	2SIS-009-F807	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
782000	2SIS-009-F808	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793
782100	2SIS-009-F809	2	C-C	C3.20	WELDED ATTACHMENT FOR 2SIS-PSR371X	PT	110793

SUMMARY	COMPID	CLASS	CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
787750	2SIS-375-F402	2	R-A	R1.12	SOCKET WELD	VT-2	110798
790900	2SIS-PSR237S	2	F-A	F1.20R	SUPPORT	VT-3	111104
791200	2SIS-PSR256S	. 2	F-A	F1.20R	SUPPORT	VT-3	111104
795800	2SVS-PSR019	2	F-A	F1.20R	SUPPORT	VT-3	100203
806400	2SVS-PSSH661	2	F-A	F1.20S	SUPPORT	VT-3	100217
808950	2CCP*P21B-CS-1,-2	3	F-A	F1.40E	PUMP SUPPORTS	VT-3	E-3J
817900	2CCP-PSST094Y	3	F-A	F1.30T	SUPPORT	VT-3	107210
818900	2CCP-PSR112	3	F-A	F1.30R	SUPPORT	VT-3	107210
819400	2CCP-PSR104	3	F-A	F1.30R	SUPPORT	VT-3	107211
820800	2CCP-PSR089	3	F-A	F1.30R	SUPPORT	VT-3	107212
824300	2CCP-PSR008	3	F-A	F1.30R	SUPPORT	VT-3	107216
831400	2CCP-PSR058	3	F-A	F1.30R	SUPPORT	VT-3	107221
834600	2CCP-PSR081	3	F-A	F1.30R	SUPPORT	VT-3	107226
844200	2CCP-PSR438X	3	F-A	F1.30R	SUPPORT	VT-3	110710
854700	2CCP-PSR048	-3	F-A	F1.30R	SUPPORT	VT-3	120722
860640	2FNC-PSSH178	3	F-A	F1.30S	SUPPORT	VT-3	107707
360641	2FNC-004-F-800	. i. : 3	D-A	D1.20	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT-1	107707
360642	2FNC-004-F-801	10 A (19 3 0)	D-A	D1.20	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT-1	107707
860643	2FNC-004-F-802	8/1 44.4 3 /14	D-A	.D1.20	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT-1	107707
860644	2FNC-004-F-803	7 - 7 - 7 - 7 - 19 - 19 - 19 - 19 - 19 -	D-A	D1.20	WELDED ATTACHMENT FOR 2FNC-PSSH178	VT-1	107707
860680	2FNC-PSR161	3	F-A	F1.30R	SUPPORT	VT-3	107708
862100	2FWE-PSR059Y	· · · · · · · 3	F-A	F1.30R	SUPPORT	VT-3	101602
862800	2FWE-PSR024Y	. 3	F-A	F1.30R	SUPPORT	VT-3	101604
864350	2FWE*P22-CS-1 TO CS-4	3	F-A	F1.40E	PUMP SUPPORTS	VT-3	E-3K
868850	2FWE*P23B-CS-1 TO CS-4	3	F-A	F1.40E	PUMP SUPPORTS	VT-3	E-3K
873100	2FWE-PSST349X	3	F-A	F1.30T	SUPPORT	VT-3	101625
873322	2FWE-PSSH017	2	F-A	F1.20S	SUPPORT	VT-3	101707
873323	2FWE-108-F-804	3	D-A	D1.20	WELDED ATTACHMENT FOR 2FWE-PSSH017	VT-1	101707
873324	2FWE-108-F-805	3	D-A	D1.20	WELDED ATTACHMENT FOR 2FWE-PSSH017	VT-1	101707
873325	2FWE-108-F-806	3	D-A	D1.20	WELDED ATTACHMENT FOR 2FWE-PSSH017	VT-1	101707
873326	2FWE-108-F-807	. 3	D-A	D1.20	WELDED ATTACHMENT FOR 2FWE-PSSH017	VT-1	101707
873331	2FWE-PSR012A	2	F-A	F1.20R	SUPPORT	VT-3	101707
873341	2FWE-PSR021	2	F-A	F1.20R	SUPPORT	VT-3	101708
873346	2FWE-PSA028	2	F-A	F1.20A	SUPPORT	VT-3	101708
873361	2FWE-PSR340X	. 2	F-A	F1.20R	SUPPORT	VT-3	101617
873365	2FWE-PSST362X	2	F-A	F1.20T	SUPPORT	VT-3	101618
873367	2FWE-PSR053Y	. 2	F-A	F1.20R	SUPPORT	VT-3	101618
873371	2FWE-PSR048Y	2	F-A	F1.20R	SUPPORT	VT-3	101619
874100	2FWE-PSR004C	3	F-A	F1.30R	SUPPORT	VT-3	520043

APPENDIX I - 2R12 CODE EXAMINATIONS

SUMMARY	COMPID	CLAS	S CAT	ITEM NO	DESCRIPTION	NDE METHOD	ISO NO
874900	2FWE-PSA002C	3	F-A	F1.30A	SUPPORT	VT-3	520147
875500	2HVC*REF24A-SPT-1	3	F-A	F1.40E	SUPPORT	VT-3	E-3X
875600	2HVC*REF24A-W-1	3	D-A	D1.10	INTEGRAL ATTACHMENT	VT-1	E-3X
876900	2HVC-PSR007	3	F-A	F1.30R	SUPPORT	VT-3	173901
877500	2MSS-PSST491	3	F-A	F1.30T	SUPPORT	VT-3	101614
880100	2SWS-PSSH760A	3	F-A	F1.30S	SUPPORT	VT-3	100403
881100	2SWS-PSR023	3	F-A	F1.30R	SUPPORT	VT-3	101902
884100	2SWS-PSR004	3	F-A	F1.30R	SUPPORT	VT-3	101906
885400	2SWS-PSA140	3	F-A	F1.30A	SUPPORT	VT-3	101908
885500	2SWS-188-F-504	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSA140	VT-1	101908
886700	2SWS-PSA139	3	F-A	F1.30A	SUPPORT	VT-3	101909
886800	2SWS-185-F-504	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSA139	VT-1	101909
889400	2SWS-PSR076	3	F-A	F1.30R	SUPPORT	VT-3	101912
889900	2SWS-PSA072	3	F-A	F1.30A	SUPPORT	VT-3	101912
890000	2SWS-201-F-517	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSA072	VT-1	101912
894600	2SWS-PSR130Y	3	F-A	F1.30R	SUPPORT	VT-3	101921
895600	2SWS-PSR123Y	3	F-A	F1.30R	SUPPORT	VT-3	101922
907000	2SWS-PSR210	3	F-A	F1.30R	SUPPORT	VT-3	109915
907100	2SWS-188-F-803	9g 3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSR210	`VT-1	109915
907200	2SWS-188-F-804	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSR210	VT-1	109915
907300	2SWS-188-F-806	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSR210	VT-1	109915
907400	2SWS-188-F-812	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-PSR210	VT-1	109915
927900	2SWS-PSST657T	3	F-A	F1.30T	SUPPORT	VT-3	120731
928000	2SWS-PSR656T	3	F-A	F1.30R	SUPPORT	VT-3	120731
931000	2SWS-R283	3	F-A	F1.30H	SUPPORT	VT-3	311002
931100	2SWS-005-F-10A	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
931200	2SWS-005-F-12	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
931300	2SWS-005-F-29	3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
931400	2SWS-005-F-34	. 3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
931500	2SWS-005-F-35	. 3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
931600	2SWS-005-F-41	. 3	D-A	D1.20	WELDED ATTACHMENT FOR 2SWS-R283	VT-1	311002
999990	2CNMT-CONCRETE	cc	L-A	L1.10	CONTAINMENT CONCRETE	VT-1C, 3C	

APPENDIX II ANALYTICAL EVALUATIONS

Condition Report Number: <u>06-8229</u> Mode: <u>4</u>

Functional Location: 2SIS-147

Functional Location Description: LOOP 2B SI ACCUM TK 2B CHECK

Assigned Group: Boric Acid Team

Assigned Owner: Technical Services Engineering

Mode Hold Resolution: PROBLEM STATEMENT

The 2R12 Boric Acid walkdown identified less then 1 tablespoon of dry, trace, white boric acid located around the circumference on the body to bonnet area of valve 2SIS-147.

A photo relevant to this investigation is located at: S:\All\NDE\Boric Acid Information\2R12\2R12 Inspection Photos\692

EVALUATION

2SIS-147

COMPONENT DESCRIPTION

- Function: Loop 21B Safety Injection Accumulator Tank 21B Check Valve
Boric acid was identified at the body to bonnet area of 2SIS-147. The materials in contact with the boric acid
are resistant to boric acid corrosion and are identified as follows (reference drawing 2006.300-001-113):

Body: SA 182 Type 316 stainless steel Bonnet: SA 240 Type 316 stainless steel Nuts: SA453 Grade 660 stainless steel Studs: SA453 Grade 660 stainless steel

COMPONENT HISTORY

No history could be found in database or SAP

CONDITION DESCRIPTION

- Less than 1 tablespoon of dry, white, trace boric acid was found around the circumference on the body to bonnet area of valve 2SIS-147.
- No corrosion or degradation identified
- No targets identified

ASME SECTION XI CONSIDERATIONS

For 2SIS-147, boric acid has accumulated at the pressure-retaining bolted connection (body to bonnet joint), and therefore the actions per ASME Section XI, IWA-5250 (a)(2) are required. In this part of the code, it states that if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA 3100. However, Code Case N-566-1 (reference NOP-ER-2001) and Code Case N-566-2 (reference NDE-VT-502), both entitled "Corrective Action for Leakage Identified at Bolted Connections" are accepted alternatives to this requirement and will be utilized in this case. Code Cases N-566-1 and N-566-2 require that the bolting be evaluated to determine the susceptibility of the bolting to corrosion and failure. The following evaluation provides all criteria for both Code Cases:

- (1) The number and service age of bolts: 18 studs; service age is unknown
- (2) Bolt and component material: Studs are SA 453 Grade 660 stainless steel; Nuts are SA 453 Grade 660 stainless steel; Valve body is SA 182 Type F316 stainless steel; Bonnet is SA 240 Type 316 stainless steel (3) Corrosiveness of process fluid: The SI Accumulator Tank boron concentration is maintained between 2300

and 2600 ppm. However, the bolting, body and bonnet material are stainless steel and resistant to boric acid corrosion. The potential for re-wetting exists; however, the affected components are stainless steel and are not susceptible to corrosion. Therefore, there is no corrosion issue present.

- (4) Leakage location and system function: Leak location is at the body-to bonnet joint for 2SIS-147. 2SIS-147 is the Loop 21B Safety Injection Accumulator Tank 21B Check Valve. The system function is to provide for passive injection of borated water into the RCS following a large break LOCA.
- (5) Leakage history at the connection or other system components: No history could be found in database or SAP, but 2SIS-142 and 2SIS-148 had similar leakage found this outage.
- (6) Visual evidence of corrosion at the assembled location: There is no visual evidence of corrosion or degradation at the bolted connection. Since the materials are resistant to boric acid corrosion, this is expected.

ACTIONS TAKEN

None "Accept AS-IS". Boric acid present at the body to bonnet area was evaluated for "Accept AS-IS" for leaving trace deposits as defined in NOP-ER-2001 Section 4.4.5 and was determined to be acceptable. An "As Found" visual inspection was completed satisfactorily by a Boric Acid Corrosion Control (BACC) Inspector, who did not note any degradation or other unacceptable conditions. The "As Found" visual inspection and photo will also be used as the "As Left" documentation.

CONCLUSION

The Boric Acid Team evaluated this condition per NOP-ER-2001 Section 4.4.5 and determined that the boric acid present at the body to bonnet area was an acceptable trace deposit. The Boric Acid Teams decision for this condition to "Accept AS-IS" is based on the following:

- A) There is no observed degradation on any surrounding component or structure.
- B) There are no carbon steel components in contact with the boric acid leakage.
- C) The leak is not active (not wetted). The potential for re-wetting exists however, the affected components are stainless steel and are not susceptible to corrosion.
- D) The boric acid is under insulation but all valve components are stainless steel.
- E) There are no identified targets affected.
- F) This valve is subject to relatively low pressure from the SI Accumulator (approximately 700 psig) and is normally isolated from the RCS during operation by check valve 2SIS-145.

The "As Found" condition of the valve, which will be used as the "As Left" condition of the valve and the above evaluation, provides reasonable assurance the valve will perform its intended function.

ATTACHMENTS

"As Found" inspection report, with associated photo; The "As-Found" photo documents the "As-Left" condition, RM-0411-002, Drawing RM-411-002

REFERENCES

RM-0411-002, 2006.300-001-113, NOP-ER-2001, ASME Code Case N-566-1, ASME Code Case N-566-2, NDE-VT-502

Reference Applicable Documentation:

Repair Work Order Number: N/A

Clean Work Order Number: N/A

PMT Work Order Number N/A

BCO Number: N/A

e Packing Review (if applicable) / Date

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System Engineer Review / Date
N/A /16W 10-20-SG
Maintenance Supervisor / Date
Misled Will 100006
Børic Acid Program Owner / Date
Jan 10.24.01
Operational Approval for Removal / Date
1000 Superintendent / OPS SPO Designed

Condition Report Number: <u>06-8229</u> Mode: <u>4</u>

Functional Location: 2SIS-148

Functional Location Description: Loop 2A SI Accumulator Tank 2A Check Valve

Assigned Group: Boric Acid Team

Assigned Owner: Technical Services Engineering

Mode Hold Resolution: PROBLEM STATEMENT

The 2R12 Boric Acid walk down identified less than 1 they (trace) of dry, white boric acid located intermittently around the circumference on the body to bonnet area of valve 2SIS-148.

A photo relevant to this investigation is located at: S:\All\NDE\Boric Acid Information\2R12\2R12 Inspection Photos\692

EVALUATION

2SIS-148

COMPONENT DESCRIPTION

- Function: Loop 2A SI Accumulator Tank 2A Check Valve

Boric acid was identified at the body to bonnet area of 2SIS-148. The materials in contact with the boric acid are resistant to boric acid corrosion and are identified as follows (reference drawing 2006.300-001-113):

Body: SA 182 Type 316 stainless steel Bonnet: SA 240 Type 316 stainless steel Nuts: SA453 Grade 660 stainless steel Studs: SA453 Grade 660 stainless steel

COMPONENT HISTORY

1998 - Found light boric acid at the body to bonnet area 1990 - Found medium boric acid at the body to bonnet area

CONDITION DESCRIPTION

- Less than I then (trace) of dry, white boric acid was found intermittently around the circumference on the body to bonnet area of valve 2SIS 148.
- No corrosion or degradation identified
- No targets identified

ASME SECTION XI CONSIDERATIONS

For 2SIS-148, boric acid has accumulated at the pressure-retaining bolted connection, and therefore the actions per ASME Section XI, IWA-5250 (a)(2) are required. In this part of the code, it states that if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA 3100. However, Code Case N-566-1 (reference NOP-ER-2001) and Code Case N-566-2 (reference NDE-VT-502), both entitled "Corrective Action for Leakage Identified at Bolted Connections" are accepted alternatives to this requirement and will be utilized in this case. Code Cases N-566-1 and N-566-2 require that the bolting be evaluated to determine the susceptibility of the bolting to corrosion and failure. The following evaluation provides all criteria for both Code Cases:

(1) The number and service age of bolts: 18 studs; service age is unknown

(2) Bolt and component material: Studs are SA 453 Grade 660 stainless steel; Nuts are SA 453 Grade 660 stainless steel; Valve body is SA 182 Type F316 stainless steel; Bonnet is SA 240 Type 316 stainless steel

- (3) Corrosiveness of process fluid: The SI Accumulator Tank boron concentration is maintained between 2300 and 2600 ppm. However, the bolting, body and bonnet material are stainless steel and resistant to boric acid corrosion. Therefore, there is no corrosion issue present. The potential for the area to become re-wetted exists; however, the affected materials are stainless steel and are resistant to boric acid corrosion.
- (4) Leakage location and system function: Leak location is at the body to bonnet area for 2SIS-148. 2SIS-148 is the Loop 2A SI Accumulator Tank 2A Check Valve. The system function is to provide for passive injection of borated water into the RCS following a large break LOCA.
- (5) Leakage history at the connection or other system components: Similar body-to-bonnet leak on same valve in 1998 and 1990.
- (6) Visual evidence of corrosion at the assembled location: There is no visual evidence of corrosion or degradation at the bolted connection. Since the materials are resistant to boric acid corrosion, this is expected.

ACTIONS TAKEN

None, "Accept AS-IS". Boric acid present at the body to bonnet area was evaluated for "Accept AS-IS" for leaving trace deposits as defined in NOP-ER-2001 Section 4.4.5 and was determined to be acceptable. An "As Found" visual inspection was completed satisfactorily by a Boric Acid Corrosion Control (BACC) Inspector, who did not note any degradation or other unacceptable conditions. The "As Found" visual inspection and photo will also be used as the "As Left" documentation.

CONCLUSION

The Boric Acid Team evaluated this condition per NOP-ER-2001 Section 4.4.5 and determined that the boric acid present at the body to bonnet area was an acceptable trace deposit. The Boric Acid Team's decision for this condition to "Accept AS-IS" is based on the following:

- a) There is no observed degradation on any surrounding component or structure.
- b) There are no carbon steel components in contact with the boric acid leakage.
- c) The leak is not active (not wetted). The potential for re-wetting exists; however, the affected components are stainless steel and are not susceptible to corrosion.
- d) The boric acid or its residue is normally under insulation and this leak was identified due to expanded ISI scope. Although the boric acid is under insulation, there is minor accumulation and all of the components are stainless steel and are resistant to boric acid corrosion.
- e) This valve is subject to relatively low pressure from the SI Accumulator (approximately 700 psig) and is isolated from the RCS system by check valve 2SIS-151.

The "As Found" condition of the valve, which will be used as the "As Left" condition of the valve and the above evaluation, provides reasonable assurance the valve will perform its intended function.

ATTACHMENTS

"As Found" inspection report, with associated photo; The "As-Found" photo documents the "As-Left" condition, RM-0411-002

REPERENCES

RM-0411-002, 2006.300-001-113, NOP-ER-2001, NDE-VT-502, ASME Code Case N-566-1, ASME Code Case N-566-2

Reference Applicable Documentation:

Repair Work Order Number: N/A

Clean Work Order Number: N/A

PMT Work Order Number N/A

BCO Number: N/A

N/A WW	10-20-06
Valve Packing Review (if a	pplicable) / Date
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System Engineer Review /	Date
N/A wow	10-20-06
Maintenance Supervisor /	
Winley Will	10-20-66
Boric Acid Tragram Owner	r / Date
(marge Silv	10.2A.2001
Operational Approval for I	
1000 bundrintendent / OI	OC CDO Designasi

Condition Report Number: <u>06-8271</u> Mode: <u>4</u>

Functional Location: 2RHS-MOV701B

Functional Location Description: RHS TRAIN B SUPPLY ISOLATION

Assigned Group: Boric Acid Team

Assigned Owner: Technical Services Engineering

Mode Hold Resolution:

PROBLEM STATEMENT

The 2R12 Boric Acid walkdown identified 1 teaspoon of dry, white, clumped boric acid around the body to bonnet area of 2RHS-MOV701B. 2RHS-MOV701B is the RHS Train "B" Supply Isolation.

Photos relevant to this investigation are located at: S:\All\NDE\Boric Acid Information\2R12\2R12 Inspection Photos\718

EVALUATION

2RHS-MOV701B

COMPONENT DESCRIPTION

- Function: RHS Train B' Supply Isolation valve

- Boric acid deposit identified around the body to bonnet bolted connection of 2RHS-MOV701B. The materials in contact with the boric acid are resistant to boric acid corrosion and are identified as follows (reference drawing 2006.300-001-126):

Bonnet - SA182 F316 Stainless Steel Body - SA182 F316 Stainless Steel

Body to Bonnet stud - SA453 Grade 660 (Boric acid corrosion resistant alloy)

COMPONENT HISTORY

- 1999 - Valve had light packing leakage

CONDITION DESCRIPTION

- 1 teaspoon of white, clumped, dry boric acid identified in the body to bonnet area of 2RHS-MOV701B.
- No targets identified
- No corrosion or degradation identified

ASME SECTION XI CONSIDERATIONS

For 2RHS-MOV701B, boric acid has accumulated at the pressure-retaining bolted connection (body to bonnet connection), and therefore the actions per ASME Section XI, IWA-5250 (a)(2) are required. In this part of the code, it states that if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA 3100. However, Code Case N-566-1 (reference NOP-ER-2001) and Code Case N-566-2 (reference NDE-VT-502), both entitled "Corrective Action for Leakage Identified at Bolted Connections" are accepted alternatives to this requirement and will be utilized in this case. Code Cases N-566-1 and N-566-2 require that the bolting be evaluated to determine the susceptibility of the bolting to corrosion and failure. The following evaluation provides all criteria for both Code Cases:

- (1) The number and service age of bolts: 18 studs; service age is unknown
- (2) Bolt and component material: Studs / Nuts are SA453 Grade 660 Boric acid corrosion resistant alloy; Bonnet is SA182 Grade F316 stainless steel; Body is SA182 Grade F316 stainless steel
- (3) Corrosiveness of process fluid: the maximum RCS boron concentration is approximately 2500 ppm. However, the bolting, body and bonnet materials are stainless steel and resistant to boric acid corrosion.

Therefore, there is no corrosion issue present. Potential for re-wetting at the body to bonnet area exist; however, the bolting, body and bonnet materials are stainless steel and resistant to boric acid corrosion.

(4) Leakage location and system function: Leak location is the body to bonnet bolted connection of the valve. 2RHS-MOV701B is the RHS Train 'B' Supply Isolation valve. The system function is to cool the reactor core during shutdown condition.

- (5) Leakage history at the connection or other system components: No Body to Bonnet leakage has been observed. In 1999, leakage was observed at the packing area. 2RHS-MOV701A was found with body to bonnet leakage.
- (6) Visual evidence of corrosion at the assembled location: There is no visual evidence of corrosion or degradation at the bolted connection. Since the materials are resistant to boric acid corrosion, this is expected.

ACTION TAKEN

None, accept AS-IS. An "As Found" inspection was performed by qualified NDE personnel. The "As Found" inspection and photos will document the "As Left" condition.

CONCLUSION

The Boric Acid Team evaluated this condition per NOP-ER-2001 Section 4.4.2 and determined that leaving non-trace boric acid deposits would be acceptable. The decision for "Accept AS-IS" is based on the following:

- a) The leak source is identified as the body to bonnet bolted connection.
- b) There are no carbon steel components in direct contact with the boric acid leakage.
- c) The leak is not active (not wetted). The potential for the area to become re-wetted exists; however, the bolting, body and bonnet materials are stainless steel and resistant to boric acid corrosion.
- d) There is no observed degradation on any surrounding component or structure.

The "As Found" condition of the valve, which will be used as the "As Left" condition of the valve, and the evaluation above provides reasonable assurance the valve will perform its intended function.

ATTACHMENTS:

"As Found" inspection report, with associated photo; Drawing RM-0410-001

REFERENCES:

2006.300-001-126, RM-0410-001, NOP-ER-2001, NDE-VT-502, ASME Code Case N-566-1, ASME Code Case N-566-2

Reference Applicable Documentation:

Repair Work Order Number: N/A

Clean Work Order Number: N/A

PMT Work Order Number N/A

BCO Number: N/A

Valve Packing Review (if applicable) / Date

System Engineer Review / Date

Maintenance Supervisor / Date

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Polic Acid Francis Owner / Date

Market Market 10

roles 10.24.2006

Operational Approval for Removal / Date (OPS Superintendent / OPS SRO Designee)

Condition Report Number: 06-7441

Mode: 4

Functional Location: 2RCS-P21C-MJ-4

Functional Location Description: Reactor Coolant Pump 21C Scal Injection Line

Assigned Group:

Boric Acid Team

Assigned Owner: Technical Services Engineering

Mode Hold Resolution:

PROBLEM STATEMENT

The 2R12 Boric Acid walk down identified dry, white/brown trace boric acid deposits less than 1 tsp on the gasket of mechanical joint 4 for pump 2RCP-P21C.

A photo relevant to this investigation is located at S:\All\NDE\Boric Acid Information\2R12\2R12 Inspection Photos\738.

EVALUATION

2RCS-P21C MJ-4.

COMPONENT DESCRIPTION

- Function: Reactor Coolant Pump 21C Scal Injection Line
- Dry, white/brown boric acid deposit of less than 1 tsp on the gasket of mechanical joint 4 for 2RCS-P21C. The materials in contact with the boric acid are resistant to boric acid corrosion and are identified as follows: (2806.263-920-751)
- Flange SA-182 F316 stainless steel.
- Stud Bolts SA-193 Gr. B6 stainless steel
- Stud Nuts SA-194 Gr. 6 stainless steel

COMPONENT HISTORY

No History found in SAP or EMPAC.

CONDITION DESCRIPTION

- Less than 1 tsp. of white/brown, dry boric acid identified on the gasket of 2RCS-P21C mechanical joint 4.
- No targets identified
- No corrosion or degradation identified. The Boric Acid Inspector contributed the brown color to oil leakage.

ASME SECTION XI CONSIDERATIONS:

Due to boric acid being present at a pressure-retaining bolted connection, the actions per ASME Section XI, IWA-5250 (a)(2) are required. In this part of the code, it states that if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA 3100. However, Code Case N-566-1 (reference NOP-ER-2001) and Code Case N-566-2 (reference NDE-VT-502). both entitled "Corrective Action for Leakage Identified at Bolted Connections" are accepted alternatives to this requirement and will be utilized in this case. Code Cases N-566-1 and N-566-2 require that the bolting be evaluated to determine the susceptibility of the bolting to corrosion and failure. The following evaluation provides all criteria for both Code Cases:

- (1) The number and service age of bolts: 4 studs; service age unknown
- [2] Bolt and component material: Studs are SA-193 Grade B6 stainless steel, Nuts are SA-194 Grade 6

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stainless steel, Flexitallic Gasket is type 304 stainless steel, and Flange is SA-182 F316 stainless steel. (3) Corrosiveness of process fluid: The maximum RCS and / or RWST boron concentration is approximately 2500 ppm. However, corrosiveness of the process fluid is not a concern since the component materials in contact with the boric acid are stainless steel and resistant to boric acid corrosion.

(4) Leakage location and system function: Leakage location is at the gasket of 2RCS-P21A mechanical joint 4. The function of mechanical joint 4 is to allow seal injection to flow to Reactor Coolant Pump 21C.

(5) Leakage history at the connection or other system components: There is no history of leakage at the flange area.

(6) Visual evidence of corrosion at the assembled location: There is no visual evidence of corrosion or degradation at the bolted connection. The Boric Acid Inspector contributed the brown color in the boric acid to oil leakage.

ACTIONS TAKEN

None "Accept AS-IS". Boric acid present at mechanical joint 4 was evaluated for "Accept AS-IS" for leaving trace deposits as defined in NOP-ER-2001 Section 4.4.5 and was determined to be acceptable. An "As Found" visual inspection was completed satisfactorily by a Boric Acid Corrosion Control (BACC) Inspector, who did not note any degradation or other unacceptable conditions. The "As Found" visual inspection and photo will also be used as the "As Left" documentation.

CONCLUSION

The Boric Acid Team evaluated this condition per NOP-ER-2001 Section 4.4.5 and determined that the boric acid present at mechanical joint 4 of 2RCS-P21C was an acceptable trace deposit. The Boric Acid Team's decision for this condition to "Accept AS-IS" is based on the following:

- A) There is no observed degradation on any surrounding component or structure.
- B) There are no carbon steel components in contact with the boric acid leakage.
- C) The leak is not active (not wetted). The potential for re-wetting exists however, the affected components are stainless steel and are not susceptible to corrosion.
- D) The boric acid or its residue is not under any insulation.
- E) The source of the leak has been determined to be from the gasket of mechanical joint 4 for 2RCS-P21C.

The "As Found" condition of the mechanical joint, which will be used as the "As Left" condition, and the above evaluation, provides reasonable assurance the joint will perform its Intended function.

Attachments: "As Found" inspection report, with associated photos; The As-Found photo documents the As-Left condition: RM-0406-001

REFERENCES

RM-0406-001: 2806.263-920-751, NOP-ER-2001, Code Case N-566-1, Code Case N-566-2

Réference Applicable Documentation:

Repair Work Order Number: N/A

Clean Work Order Number: N/A

PMT Work Order Number N/A

BCO Number: N/A

Valve Packing Review (if applicable) / Date

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System Engineer Review / Date	
N/A MON	10-17-56
Maintenance Supervisor / Date	
Wishyd Will	10-17-06
Boric Acid Program Owner / Date	
	10/20/06
Operational Approval for Removal	
(OPS Superintendent / OPS SRO I	Designee)

Condition Report Number: 06-7121 Mode: 4

Functional Location: 2SIS-142

Functional Location Description: Loop 21C Safety Injection Accumulator Tank 21C Check Valve

Assigned Group: Boric Acid Team

Assigned Owner: Technical Services Engineering

Mode Hold Resolution: PROBLEM STATEMENT

The 2R12 Boric Acid walkdown identified approximately 1 tbsp of dry, clumped, white boric acid located intermittently around the circumference on the body to bonnet area of valve 2SIS-142.

A photo relevant to this investigation is located at: S:\All\NDE\Boric Acid Information\2R12\2R12 Inspection Photos\692

EVALUATION

2SIS-142

COMPONENT DESCRIPTION

- Function: Loop 21C Safety Injection Accumulator Tank 21C Check Valve
- Dry, white, clumped boric acid was identified at the body to bonnet area of 2SIS-142. The materials in contact with the boric acid are resistant to boric acid corrosion and are identified as follows (reference drawing 2006.300-001-113}:

Body: SA 182 Type 316 stainless steel Bonnet: SA 240 Type 316 stainless steel Nuts: SA453 Gr 660 stainless steel

Studs: SA453 Gr 660 stainless steel

COMPONENT HISTORY

2R11 - Accepted AS-IS

2R10 - Cleaned boric acid from valve

CONDITION DESCRIPTION

- 1 thep of dry, white, clumped boric acid was found intermittently around the circumference on the body to bonnet area of valve 2SIS-142.
- No corrosion or degradation identified
- No targets identified

ASME SECTION XI CONSIDERATIONS

- For 2SIS-142, boric acid has accumulated at the pressure-retaining bolted connection (body to bonnet joint), and therefore the actions per ASME Section XI, IWA-5250 (a)(2) are required. In this part of the code, it states that if leakage occurs at a bolted connection, the bolting shall be removed, VT-3 visually examined for corrosion, and evaluated in accordance with IWA 3100. However, Code Case N-566-1, Corrective Action for Leakage Identified at Bolted Connections is an accepted alternative to this requirement and will be utilized in this case. Code Case N-566-1 requires that the bolting be evaluated to determine the susceptibility of the bolting to corrosion and failure as follows:
- (1) the number and service age of bolts: 18 studs; service age is unknown
- (2) bolt and component material: studs are SA 453 Gr 660 stainless steel; nuts are SA 453 Grade 660

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stainless steel; valve body is SA 182 Type F316 stainless steel; bonnet is SA 240 Type 316 stainless steel (3) corrosiveness of process fluid: The SI Accumulator Tank boron concentration is maintained between 2300 and 2600 ppm. However, the bolting, body and bonnet material are stainless steel and resistant to boric acid corrosion. Therefore, there is no corrosion issue present.

- (4) leakage location and system function: Leak location is at the body-to bonnet joint for 2SIS-142. 2SIS-142 is the Loop 21C Safety Injection Accumulator Tank 21C Check Valve. The system function is to provide for passive injection of borated water into the RCS following a large break LOCA.
- (5) leakage history at the connection or other system components: Similar body-to-bonnet leak on same valve in 2R11 was accepted as is. The valve was cleaned in 2R10.
- (6) visual evidence of corrosion at the assembled location: There is no visual evidence of corrosion or degradation at the bolted connection. Since the materials are resistant to boric acid corrosion, this is expected.

ACTIONS TAKEN

None "Accept AS-IS". Boric acid present at the body to bonnet area was evaluated for "Accept AS-IS" for leaving non-trace deposits as defined in NOP-ER-2001 Section 4.4.2 and was determined to be acceptable. An "As Found" visual inspection was completed satisfactorily by a Boric Acid Corrosion Control (BACC) Inspector, who did not note any degradation or other unacceptable conditions. The "As Found" visual inspection and photo will also be used as the "As Left" documentation.

CONCLUSION

The Boric Acid Team evaluated this condition per NOP-ER-2001 Section 4.4.2 and determined that the boric acid present at the body to bonnet area was an acceptable non-trace deposit. The Boric Acid Teams decision for this condition to "Accept AS-IS" is based on the following:

- A) There is no observed degradation on any surrounding component or structure. The condition shows only minimal increased leakage from the 2R11 "as left" condition.
- B) There are no carbon steel components in contact with the boric acid leakage.
- C) The leak is not active (not wetted). The potential for re-wetting exists however, the affected components are stainless steel and are not susceptible to corrosion.
- D) The boric acid or its residue is not under any insulation.
- E) There are no identified targets affected.
- F) This valve is subject to relatively low pressure from the SI Accumulator (approximately 700 psig) and is normally isolated from the RCS during operation by check valve 2SIS-141.

The "As Found" condition of the valve, which will be used as the "As Left" condition of the valve and the above evaluation, provides reasonable assurance the valve will perform its intended function.

Attachments: "As Found" inspection report, with associated photo; The "As-Found" photo documents the "As-Left" condition, RM-0411-002

Ref: RM-0411-002, 2006.300-001-113, NOP-ER-2001, Code Case N-566-1

Reference Applicable Documentation:

Repair Work Order Number: <u>N/A</u>
Clean Work Order Number: <u>N/A</u>

PMT Work Order Number N/A

BCO Number: N/A

Valve Packing Review (if applicable) / Date

XILIA R XILIAN 10/14/06
System Engineer Review / Date
N/A (DEW) 10/14/04
Maintenance Supervisor / Date
Wales Will 10/17/04
Boric And Program Owner / Date
10.23.06
Operational Approval for Removal / Date
(QPS Superintendent / QPS SRQ Designee)

APPENDIX III

REPAIR / REPLACEMENT ABSTRACT AND NIS-2 FORMS

NIS-2 ABSTRACT

		NIS-Z ADSTRACT	
FORM NO.	ASSET NUMBER	<u>ORDER NO.</u>	<u>COMMENTS</u>
1509	2CCP-450	200016239	Installed
1623	2-SWS-002-090-3	03-0061-01	Installed
**	2-SWS-002-756-3	ti .	n
**	2-SWS-150-965-3	ti .	11
n	2-SWS-002-751-3	**	11
**	2-SWS-150-964-3	11	**
1730	2DGS-RV115	200025374	Corrected
"	**	200159769	11
1758	2SWS-79	200059246	Installed
1764	2MSS-SV101C	200084052	Installed
1765	2MSS-SV102C	200086068	Installed
1766	2MSS-SV103C	200016310	Installed
1767	2MSS-SV104C	200016316	Installed
1810	2-SWS-002-755-3	03-0061-02	Installed
"	2-SWS-002-760-3	**	"
"	2-SWS-150-968-3	11	"
**	2-SWS-150-969-3	n	"
1815	2FNC-109	200105607	Corrected
1823	2SWS-P21A	200109376	Corrected
1841	2CCP-EJM214B	200136803	Corrected
1901	2CHS-12	200086279	Corrected
1904	2Q\$\$-2	200168856	Corrected
1914	2CHS-P21A	200036098	Corrected
11	**	200015415	Corrected
1915	2-SWS-003-612-3	200213588	Installed
1927	2-QSS-002-217-2	200213621	Installed
11	2QSS-PSR063R	"	Corrected
1930	2CHS-P21B	200018129	Corrected
11	et .	200016616	Corrected
1931	2MSS-AOV101A	200158719	Corrected
1934	2MSS-SV105C	200016324	Installed
1935	2RCS-PRE21	200169234	Corrected
11	17	200169235	"
	17	200169236	. "
11	**	200169237	"
11	**	200169240	**
n ,	11	200169241	
1936	2FWE-FCV122	200020055	Corrected
1937	2CCP-238	200135817	Corrected
1939	2SVS-82	200157419	Corrected
1942	2EGF-TK21A	200095841	Corrected
1943	2SWS-1231	200148267	Corrected
1945	2CHS-FCV122	200152731	Corrected
1946	2CHS-RV203	200166575	Corrected

NIS-2 ABSTRACT

FORM NO.	ASSET NUMBER	ORDER NO.	<u>COMMENTS</u>
1947	2RCS-RV551B	200166403	Installed
1950	2BDG-AOV102C2	200156080	Corrected
1954	2EGF-TK21B	200165607	Corrected
1955	2RCS-PCV456	200165646	Corrected
1964	2QSS-1	200154335	Corrected
1972	2RCS-50	200232622	Removed
11	2RCS-PSA960	**	Installed
1973	2RCS-REV21	200232789	Corrected
11	n	200167097	11
1974	2RCS-635	200232912	Removed
1976	2RCS-SG21A	7024829	Corrected
1977	2RCS-SG21B	7024829	Corrected
1978	2RCS-SG21C	7024829	Corrected
1979	2MSS-AOV101C	200235524	Corrected
1994	2CHS-PSSP006	200169557	Replacement
1995	2CHS-PSSP015X	200169558	Replacement
1996	2SIS-PSSP208X	200169571	Replacement
1997	2SIS-PSSP209A	200169572	Replacement
1998	2MSS-PSSP151A	200169565	Replacement
1999	2RCS-PSSP015X	200169550	Replacement
2000	2RHS-PSSP522X	200169568	Replacement
2001	2MSS-PSSP001	200169579	Replacement
2002	2MSS-PSSP131B	200169581	Replacement

Form No.	1509
i Ominiao.	1303

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

	(ADDRESS)	on, OH 44308	5				
2. Plant <u>Be</u>	(ADDRESS)	on, OH 44308					
	aver Vallev P		_	Sheet1	of	f2	
*Sh	(NAME)	ower Station (BV	<u>(PS)</u> (Jnit No.		2	
	ppingport, PA (ADDRESS)	A 15077	<u> </u>	Work C Repair/Replacement		00016239 n P.O. No., Job No.	, etc.
3. Work Performe	d By <u>BVPS</u>	- Maintenance (NAME)	1	ype Code Symbol	Stamp	N	/A
Sh	ppingport, PA	A 15077		authorization No.		N/A	
	(ADDRESS)		E	xpiration Date _		α	. <u></u>
Identification of	System	Primary Compo	onent Cooling	Water (Class 3)			
	_		1.1.				
				n, <u>S72</u> Addenda, <u>N/</u>	A Code Ca	ase	
. ,	ition of Section 2 ction XI Code Ca	(I Utilized for Repair/I	Replacement A	ctivity <u> 1989</u>			
.,		· · —					
6. Identification of	Components	3					
Name of Component	Name of Manufactur er	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
Gate Valve	Henry Vogt	99-214 959	N/A	2CCP-450	1983	Removed	Yes
Gate Valve	Henry Vogt	83-168860	N/A	2CCP-450	1974	Installed	Yes
. 1 794 cz	3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	ds s			35 /5	,	
					<u> </u>		
7. Description of \	Work Rep	laced valve and p	pipe.				
				•			
8. Tests Conduct	ed: Hvdros	tatic* ☐ Pneu	matic* □	Nominal Operating	Pressu	re⊠ Fxe	mpt []

*Record test pressure and temperature

9. Remarks No Previous NIS-2 Data Report. Manufacturers' Data Report attached. Applicable Manufacturer's Data Reports to be attached
2" Valve PO# 45107090 2" Pipe PO# 47052588, Ht. #A45140.
2 1310. 51 1010.55 2 1 100. 51 10 50.
·
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME
Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Seiner Special ist Date November 10 , 20 06
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{1(-13-06)}{}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Lean S. W. Commissions I. N. PARSFY
Inspectors Signature National Board, State, Province, and Endorsements
Date, 20 0 6
Date

FORM NPV-I MANUE ACTURERS' DATA REPORT FOR NUCLEAR PLACES OR VALVES

An Required by the Provisions of the ASME Code Rules

Heaviscaured by	Henry Vogt Ma Louisville, R	(Y \$0201		CRO 168860 Vogt Item 17
	Portland Gene	eral Blectric Co ertland, Oragon (Note and Address)	., 621 S.W.	N00331
		eral Electric Co	5]	ear Plant.
	Z" Mani	on(Tal Line SW Gate 1860 (Son Attach	ANTAR - Andr :	sn 79-168860 thi
	Hain Si	team System dysles of service for which equ	pared wor designed)	
(a) Drawing No	B-48494	Propered by Henry	Vogt Machine	company
(b) National Board I				- 19 -
Design Conditions	1440 ·	Cresporation		
		مم کنست تورک می دود می	lett Calle Carel and 187 Chan	_ 4
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The material, dealgr	s, construction, and wo			Remarks
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The metarial, design	71 , Addeeds D	Motoriel Spec. No.	Case No.	Remarks
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FORM NI'V-L (back)

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Design apecifications Strens analysis report (1) Signature not sequil We cartify that the stat Date April R. Certificate of Authoriz i, the undersigned, sind/or the State of Production of Authoriz Bushon on March has constructed this empore on March has constructed this empore of the equipment design the equipment des	certified by	H. Lieo It. Air report are Signed Henr 357 exp CERTIFICA commission is ntilCky sotta 4 and dance with the the foractor a lieopart, Fort	Correct. Y Vogt Ma (Manufacturer) Piecs Jan. TB OF SHOP pared by the Nat and ca state that at the capplicable Sub- our his capployer thermore, neither	ch.Co. By 11, 1975 RSPECTION ional Board of Beile sployed by Comme bare inspected the bare inspected the rection of ASME Comme rection of ASME Comme westign of ASME or makes any wanten the inspector nor b d mixing from or cu	France Virginia Virgi	rally rally fessel inspectors on Ins.Co. ibed in this Data the Manufactures landled, concoru- be Jiable in any s inspection.
Design apecifications Strens analysis report (1) Signature not sequil We curtify that the state Date April R. Certificate of Authoriz 1, the undersigned, sind/or the fitnes of Pecificate of Pecificate of March, has constructed this eleg the equipment designation of the equ	certified by	H. Lieo It. Air report are Signed Henr 357 exp CERTIFICA commission is ntilCky sotta 4 and dance with the the foractor a lieopart, Fort	Correct. Y Vogt Ha (Manufacturer) Piecs Jan. TB OF SHOP pared by the Nat and ca state that at the applicable Sub christon player the parent is a meither a loan of any kin	ch.Co. By 11, 1975 RSPECTION ional Board of Beile sployed by Comme bare inspected the bare inspected the rection of ASME Comme rection of ASME Comme westign of ASME or makes any wanten the inspector nor b d mixing from or cu	Frank Pressure Virginal United Section III. The confidence of the	rally rally fessel inspectors on Ins.Co. ibed in this Data the Manufactures landled, concoru- be Jiable in any s inspection.

Form	No	1623
LOHIII	INU.	1023

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

. Owner _	Owner First Energy (NAME)			Date _		8/22	2/06	
	Shippingport, PA 15077 (ADDRESS)			Sheet	1	of	1	· · · · · · · · · · · · · · · · · · ·
Plant	Beaver Valle	ey Power Station	1	Unit No.	2			
	Shippingport	<u>, PA 15077</u>		Re		-03-000 Organization	61-01 P.O. No., Job No.	, etc.
Work Per	formed By <u>B\</u>	/PS Constructio	<u>n</u>	Type Cod	de Symbol	Stamp	N	/A
	Shippingport			Authoriza	ation No		N/A_	-,
	(ADDRESS)	1		Expiratio	n Date _	_ · · · · · · · · · · · · · · · · · · ·	N/A	
(b) Application (c) Application			Case		•		Winter 72 Ad	ddenda,
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.		ther fication	Year Built	Corrected. Removed. or Installed	ASME Code Stampe (Yes or No)
Pipe	N/A	N/A	N/A	2-SWS-(002-090-3	2006	Installed	No
Pipe	N/A	N/A	N/A	2-SWS-(002-756-3	2006	Installed	No
Pipe	N/A	N/A	N/A	2-SWS-	150-965-3	2006	Installed	No
Pipe	N/A	N/A	N/A	2-SWS-(002-751-3	2006	Installed	No
Pipe	N/A	N/A	N/A	2-SWS-	150-964-3	2006	Installed	No
CP-03-006	1-01. This ECF	Replace SWS pi Preplaced Carbo on steel vent and	on steel piping	with corro	sion resista	nt AL6>		

Remarks	
Applicable Manufacturer's Data Reports to be attached	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to code, Section XI.	the requirements of the ASME
uga Cada Sumbal Stama - N/A	
ype Code Symbol Stamp N/A	
	A.//A
Certificate of Authorization No. N/A Expiration Date	<u>N/A</u>
Says & Much	•
Signed Sanijib K. Mutherjee Date 9/21, 20 06	
Office of Office Specialists)
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Press	ure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB-CT of	•
Hartford Connecticut have inspected the components de	escribed in this
Owner's Report during the period $10-11-03$ $\frac{4-27-05}{4-27-05}$ to $\frac{4-27-05}{27-05}$	5, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective re-	neasures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
	·
By signing this certificate neither the inspector nor his employer makes any warranty, expressed	•
examinations and corrective measures described in this Owner's Report. Furthermore, neither to	4
shall be liable in any manner for any personal injury or property damage or a loss of any kind and	ising from or connected with
this inspection.	
	•
len d'h	PA2384
Inspectors Signature Commissions Ly National Board, State	le, Province, and Endorsements
Date 9-27 20 06	
Date	

Form No.	1730
FORM NO.	1730

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner	F.E.N.O.C		_ Da	te	06/1	6/05	
76 South M	Main Street – Akro	on, OH 44308	Sho	eet <u>1</u>	of		3
Plant	Beaver Valley Po	ower Station (B	<u>VPS)</u> Un	it No.		2	
	Shippingport, PA	15077		Work Order Nos Repair/Replacement			
	• •	Maintenance		oe Code Symbol		in the second	
	Shippingport, PA	15077	Aut	thorization No		N/A	···
	(ADDRESS)		Ex	piration Date _		<u></u>	
Identification	n of System	Primary Drains	(Class 2)			· .	
(b) Applicab	e Construction Code le Edition of Section X le Section XI Code Ca	l Utilized for Repair					
Identification	on of Components						
Name of Component	on of Components Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASM Cod Stamp (Yes or
Name of Component	Name of	Manufacturer				Removed, or	Cod Stamp (Yes or
Name of Component	Name of Manufacturer	Manufacturer Serial No.	No.	Identification	Built	Removed, or Installed	Cod Stamp
Name of Component	Name of Manufacturer Dresser International	Manufacturer Serial No. TG-36568	No.	2DGS-RV115	1984	Removed, or Installed	Cod Stamp (Yes or Ye
Name of Component afety Valve Spindle	Name of Manufacturer Dresser International Dresser Valve Dresser International	Manufacturer Serial No. TG-36568 N/A	No. N/A N/A	2DGS-RV115	1984 2005	Removed, or Installed Corrected Installed	Cod Stamp (Yes or Ye
Name of Component aftery Valve Spindle Spring	Name of Manufacturer Dresser International Dresser Valve Dresser International	Manufacturer Serial No. TG-36568 N/A N/A	No. N/A N/A N/A	2DGS-RV115 N/A Ht. #157428	1984 2005 1987.	Removed. or Installed Corrected Installed Installed	Code Stamp (Yes or

*Record test pressure and temperature

D. Remarks Code Data Reports attached. Previous NIS-2 Data Report No. 198. New inlet flange ½" Applicable Manufacturer's Data Reports to be attached
studs & nuts were installed per Order 200159769. Studs: P.O. 47050301, Ht. #M600, Nuts: P.O.
7075105 and 45110156 Ut #D060
7075105 and 45110156, Ht. #B960,
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME code, Section XI.
ype Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Sexion Specialist Date November 20 , 20 06 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this Owner's Report during the period $4-27-05$ to $11-11-05$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Dean Lywh Inspector's Signature Commissions I, N, PA 2 3 84 National Board, State, Province, and Endorsements
Date

NUCLEAR PARTS AND APPURTENANCES* As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

lanufactured and certified by Ir	ntersection Hwy. 167 @ 322	5 North, Ale	exandria, Louisiana 71 s of NPT Certificate Holder)	309	
Manufactured for First Energy Co	orporation P. O. Box 3611 A	kron, Ohio	44309-3611 address of purchaser)		
ocation of installation First Ene	rgy Corporation Beaver Vall	ey Power S		ennsylvania 1	5077
ype OS418	SA479 TYPE 316		75 KSI MIN.	N/A	2000
(drawing no.)	(mat'l spec. no.)		(tensile strength)	(CRN)	(year built
SME Code Section III, Division 1:	1974 (edition)		er 1974 da date)	(class)	N/A (Code Case no.
abricated in accordance with Cons		N/A (no)	Revision	N/A	Date N/A
emarks : Serial Numbers Are U	sed In Lieu Of NPT Stampin	ng.	3. n.t.	· · · · · · · · · · · · · · · · · · ·	
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om. thickness (in.) N/A Min.	design thickness (in.)	N/A Dia. I	iD (ft. & in.) N/A	Length overa	all (ft. & in.) N/
hen applicable, Certificate Holder					`
				<u></u>	
Part or Appurtenance	National		Part or Appurtenar	ice	National
Serial Number	Board No.		Serial Number		Board No.
	in Numerical Order		,	in	Numerical Order
	•		•		
(1) ADC62		(26)			<u> </u>
(2)		(27) (28)			
(3)		(29)			
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(6)	,	(31)			- · · · · · · · · · · · · · · · · · · ·
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		(46)			
21)		(47)			
21)				4	
20)		(48) (49)			

^{*} Supplemental information in the form of lists. Sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of _____)

•	CERTIFICATION (OF DESIGN			÷
Design specifications certified by	N/A	P.E. State	N/A	Reg. No.	N/A
Design report* certified by	(when applicable) N/A	P.E. State	N/A	Doe No.	N1/A
Design report certified by	(when applicable)	F.E. State	IVA	_ Reg. No.	N/A
				<u>'.</u>	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	CERTIFICATE OF C	OMPLIANCE		na Markini	1.00
We certify that the statements made in this	s report are correct and that t	nis (these) DISC			
conforms to the rules of construction of the	• •			• •	
NPT Certificate of Authorization No.	N-2434	Expires	5.	/20/2001	
NF 1 Certaincate of Addition22dion No.	14-2-40-1	Lxpires		20/2001	
Date <u>/0- 6- 0 0</u> Name	SEE LINE 1	Signed	<u> کا ک</u>	enen-	<u> </u>
	(NPT Certificate Holder)		* (aumonzeo	representative)	
	CERTIFICATE OF IN	SPECTION			
the undersigned, holding a valid commission			inspectors a	nd the State or F	Province
	issued by the National Board of		inspectors a	nd the State or F	Province
of LOUISIANA and employe have inspect	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this	Boiler and Pressure Vessel Data Report on 10/9	100	, and state t	nat to the
best of my knowledge and belief, the Certificate	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this e Holder has fabricated these pa	Boiler and Pressure Vessel Data Report on 10/9 ts or appurtenances in according	100	, and state t	nat to the
of LOUISIANA and employe of HARTFORD, CT. have inspect best of my knowledge and belief, the Certificate Ill, Division 1. Each part listed has been authority	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this e Holder has fabricated these paized for stamping on the date sh	Boiler and Pressure Vessel Data Report on 10/9 ts or appurtenances in accompany	/oc rdance with	, and state the ASME Code	nat to the , Section
of LOUISIANA and employe have inspect best of my knowledge and belief, the Certificate has been authority signing this certificate, neither the inspector	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this e Holder has fabricated these paized for stamping on the date short his employer makes any wa	Boiler and Pressure Vessel Data Report on 10/9 ts or appurtenances in accommodate above. Tranty, expressed or implied	rdance with	, and state the ASME Code	nat to the e, Section
of LOUISIANA and employe of HARTFORD, CT. have inspect of my knowledge and belief, the Certificate (III, Division 1. Each part listed has been authority signing this certificate, neither the inspector in this Data Report. Furthermore, neither the inspector in the control of	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this e Holder has fabricated these paized for stamping on the date shor his employer makes any waspector nor his employer shall be	Boiler and Pressure Vessel Data Report on 10/9 ts or appurtenances in accommodate above. Tranty, expressed or implied	rdance with	, and state the ASME Code	nat to the e, Section
	issued by the National Board of ed by H. S. B. I. & I. Co. ted these items described in this e Holder has fabricated these paized for stamping on the date shor his employer makes any waspector nor his employer shall be	Boiler and Pressure Vessel Data Report on 10/9 ts or appurtenances in accommodate above. Tranty, expressed or implied	rdance with	, and state the ASME Code	nat to the , Section described

NUCLEAR PARTS AND APPURTENANCES* As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pg. 1 of

2

• —		me and address of NP	T Certificate Holder)			
anufactured for First Energy Co	orporation P. O. Box 3611 A	kron, Ohio 44309 (name and address				
cation of installation First Ener	ray Comoration Beaver Vall	•	•	ennsylvania 1	5077	
- Thoreson	gy corporation beater tax		nd address)		0077	
pe OS418	SA182 GRADE F316		75 KSI	N/A		2001
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ME Code Section III, Division 1:	1974	Summer 19		2		N/A
Li-i-dia accordance with Cons	(edition)	(addenda date N/A	e) Revision	(class) N/A		le Case r
bricated in accordance with Cons	st. Spec. (Div. 2 dily)	(10)	T Learning -	IN/A	_ Date _	N/A
marks: Serial Numbers Are U	sed In Lieu Of NPT Stampir	• •		a statical to a	-20	
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m. thickness (in.) N/A Min.	design thickness (in.)	N/A Dia.ID (ft	. & in.) N/A	Length over	all (ft. & ir	1.) [
nen applicable, Certificate Holder	s' Data Reports are attache	d for each item o	f this report:	- ,		_
	•		•			
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Part or Appurtenance	National	P:	art or Appurtena	nce	Nation	al
Serial Number	Board No.		Serial Number		Board N	
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B) 9)		(34)				<u> </u>
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8)		(34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)				

^{*} Supplemental information in the form of lists. Sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg. 2 of 2)

•	Certificate Holder	s Serial Nos.	ADF65	through	
	CERTIFICATION OF	DESIGN		···	
Design specifications certified by	N/A (when applicable)	P.E. State	N/A	Reg. No.	N/A
Design report* certified by	N/A (when applicable)	P.E. State	N/A	Reg. No.	N/A
,	CERTIFICATE OF COM	PLIANCE			. 1
We certify that the statements made in this conforms to the rules of construction of the			eg ***	<u> </u>	<u> १८४१ मध्य स्थापन स्थ</u>
NPT Certificate of Authorization No.	N-2434	Expires	5	/20/2004	
Date Name	SEE LINE 1 (NPT Certificate Holder)	Signed 1/0	L B.e. (authorized	d representative)	
	CERTIFICATE OF INSP	PECTION	-		
I, the undersigned, holding a valid commission of LOUISIANA and employe	issued by the National Board of Bod by H. S. B. I. & I. Co.	iler and Pressure Vessel i	inspectors a	ind the State or F	Province
of HARTFORD, CT. have inspec	ted these items described in this Da	· · · · · · · · · · · · · · · · · · ·		, and state t	
best of my knowledge and belief, the Certificate III, Division 1. Each part listed has been author	ized for stamping on the date show	n above.			
By signing this certificate, neither the inspector in this Data Report. Furthermore, neither the into rloss of any kind ansing from or connected wi	spector nor his employer shall be lia				
Date 6/11/01 Signed Autho	Commized Nuclear Inspector)	nissions (Nat'l. Bd. (incl	endorsement	s) and state or prov.	and no.)

_			
Form	No	1758	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY « As Required by the Provisions of the ASME Code Section XI

. Owner	F.E.N.O.C		[Date		10/30	0/06	
76 South M	ain Street – Akro (ADDRESS)	n, OH 44308	_	Sheet	1_	of	2	
Plant	Beaver Valley Po	wer Station (B\	<u>/PS)</u> (Jnit N	0.	2	<u>!</u>	
Shippingport, PA 15077 (ADDRESS)					Repair/Replacement	000592		etc.
3. Work Performed By <u>BVPS-Maintenance</u> (NAME)				•			'A	
Shippingport, PA 15077				\uthor	ization No		N/A	
(ADDRESS)				Ехріга	tion Date		ď	
(b) Applicable	Construction Code _ Edition of Section XI Section XI Code Case of Components	Utilized for Repair/				⊾Code Ca	se	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or N
Valve	Crane Nuclear	C8993	N/A		N/A	2000	Removed	Yes
Valve	Crane Nuclear	D3921	N/A		2SWS-79	2006	Installed	Yes
Pipe 3"	Energy & Process	N/A	N/A]	HT# A41651	2002	Installed	No
Elbow 3"	Energy & Process	N/A	N/A		HT# N955C	2005	Installed	No
Flange 3"	Dubose	N/A	N/A		HT# S1128	1999	Installed	No
Studs 5/8"-11	NOVA Machine	N/A	N/A		HT# X257	2005	Installed	No
Nuts 5/8"-11	NOVA Machine	N/A	N/A		HT# X511	2005	Installed	No
. Description	of Work Repl	aced Valve, Fla	nge, Piping,	and 5	/8"-11 Studs a	and Nut	s	
. Tests Cond		atic*		No mi osi	nal Operating Test Temp.		re⊠ Exe °F	mpt 🗌

*Record test pressure and temperature

Applicable Manufacturer's Data Reports to be attached Valve PO# 45141438, Pipe PO# 7099495-5, Elbow PO# 451 67097, Flange PO# 100100, Stud PO# 45168676, and Nut PO# 451780580 CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Code, Section XI.
Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed (Lib) Seuis - Specialist Date November 1 , 20 06
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{1/-1-06}{}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
shall be liable in any mainer for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
Dean J. Tyrik Commissions I, N. PA2384
this inspection.

FORM NPV-1 CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Division 1

Pg. 1 of 2

1.	Manufactur	ed and ce	rtified by	CRAN	E Nuclear, Inc., 860 (name and	Remington 1	Boulevard, Bolin Certicate Holder)	gbrook, IL 60	440
2.	Manufactur	ed for _F	irst Energy Corpora	tion, POI	Box 345 Shippingpo	rt, PA 15077	ser)		
3.	Location of	installatio	n <u>Beaver Valley Nuc</u>	lear Power	Plant Route 168, Ship		15077		
4.	Model No.,	Series No.	or Type	5202WE	Drawing	CC036	36 Rev.	_A CF	ON N/A
5.	ASME Cod	e, Section	III, Division 1:	1971 (edition)	Summer (addenda o		3 (class)	· -	N/A Code Case no.)
6.	Pump or va	itve	Gate Valve		Nominal inlet size	3 (in.)	Outlet	size	3 (in.)
7.	Material:								SA193 87
	(a) valve (b) pump	Body Casting	SA216 WCB	Bonnet Cover	SA216 WCB N/A	Disk Bolling	SA216 WCB N/A	Bolting	SA194 2H
	(a) Cert. Holder's Serial No.		(b) Nat1 Board No.	·	(c) Body/Casing Serial No.		(d) net/Cover Serial No.		(e) Disk Serial No.
	D3921		N /A		D3922	<u>C</u>	05391		03927
				- 					
			NO SERVICE DE LA CONTRACTOR DE LA CONTRA	<u></u>			· · · · · · · · · · · · · · · · · · ·		
	ATRICINETY A CONTROL OF THE CASE OF THE C			-/ <u>-</u>				· · · · · ·	
		· · ·							·
									``
/									

This form (E00037) may be obtained from the Order Dept. ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

[•] Supplemental information in the form of fists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 1 through 4 on this Data Report is included on each sheet. (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM NPV-1 (Back) --- Pg. 2 of 2

			Cerunicate moide	15 Serial 140.		
8	Design conditions		Psi	*F or valve	pressure class _	150
•		(pressure	(temperati	re)		-
9.	Cold working pressure	275	Psi at 100	F		
10.	Hydrostatic test	425 Pa	si. Disk differentia	il test pressure _	305	Psi
11.	Remarks: SO No. 25	513-01 PO 45141438,	Item 00001			
٠.	Replacement Valve for T	ag No.: VGW-015-A-3	23.4			
			·			
	. 11		A			
•						
		CERTI	FICATION OF DESI	GN		
lesi	gn Specifications certified to	y Alan J. I	Fiorente	P.E. State PA	Reg. No(32366-E
lesi	gn Report certified by	N/A		P.E. State N/A	Reg. No.	N/A
						<u> </u>
		CERTIFI	CATE OF COMPLIA	INCE		1
of the	certify that the statements re e ASME Code, Section III, I	Division 1.	1-2899		tember 24, 2008	
Date		me CRANE	Nuclear, Inc. cate Holder)	Signed	Jerome A. Kurowski,	1
	· · · · · · · · · · · · · · · · · · ·	CEDTE	EICATE OF INSPEC	TION		
						1
	undersigned, holding a va				and the second s	tors and the
	Hartford, CT	Have inspected the				14, 2006
	state that to the best of my	knowledge and belief. If	he Certificate Holder	has constructed th	is pump, or valve, i	n accordance
	the ASME Code, Section II	11, 41, 11, 11, 11, 11, 11, 11, 11, 11,				1
		•				
	igning this certificate, neith				-	- (
	ponent described in this Da	•			•	ny manner for
uty (personal injury or property	damage or loss of any k	ansing from or co	nneciea with this i	nspection.	
		~ · · · ·	/ ·		•	
ate	e 06/14/06 Signed	1	Commissions	٠	fL 1903	ŀ
,		Authorized Nuclear Inspect			dorsements) and state or	prov. And on 3
	•	Todd Ward	·-,	francis con francis con		

(1) For manually operated valves only.

Form No.	1764

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner	F.E.N.O.C		_ Dat	ie	11/0	4/06	
76 South M	Main Street - Akro	on, OH 44308	_ She	eet1	of		3
Plant	Beaver Valley P	ower Station (BV	<u>PS)</u> Uni	it No		2	
	Shippingport, PA	A 15077		Work Or Repair/Replacement 0		00084052 P.O. No., Job N	o., etc.
Work Perfo	rmed By <u>BVPS</u>	-Construction Se	rvice Typ	e Code Symbol	Stamp		N/A
Shippingport, PA 15077				horization No		N/A	
	(ADDRESS)		Ex	oiration Date		"	
Identification	on of System	Main Steam (CI	ass 2)	·			
, , , ,	le Section XI Code Ca on of Components					•	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
Safety Valve	Crosby Valve	N57636-00-0003	736	2MSS-SV101C	1977	Removed	Yes
Safety Valve	Anderson Greenwood Crosby	N57636-00-0020	N/A	2MSS-SVI0IC	2003	Installed	Yes
Plug	Energy & Process	N/A	N/A	Lot #9428	2006	Installed	No
				·			
			<u> </u>				
· · · · · · · · · · · · · · · · · · ·	i .			1	1	1	l

*Record test pressure and temperature

104336-15 / Ht. #73265-32-2-R.	ed
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this confo ode, Section XI.	rms to the requirements of the ASME
/pe Code Symbol Stamp N/A	
Pertificate of Authorization No. <u>N/A</u> Expiration Date	N/A
igned Senior Specialist Date Senior Specialist Date	November 22 , 20 <u>06</u>
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler an	d Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT	
Hartford, CT have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected the components described have inspected have inspected the components described have inspected have inspected have a supplication of the component have a supplication have a sup	
Owner's Report during the period $\frac{7-27}{20}$ to $\frac{7-7}{20}$ best of my knowledge and belief, the Owner has performed examinations and taken con	
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	ecuve measures described in uns
By signing this certificate neither the inspector nor his employer makes any warranty, exeminations and corrective measures described in this Owner's Report. Furthermore,	neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any this inspection.	kind arising from or connected with
	4
Dean J. Zynh Commissions II	N, PA2384
	Oard, State, Province, and Endorsements



CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASTE Code Rules

Q.C.-44C

DATA REPORT Salety and Salety Relief Valves

A	1 Occa Oc. 12 Vanista	h Ch. Hannaham Mana 00000
Maduractured By Crosby Valve	Name and Address	k St., Wrentham, Mass. 02093
HA-65-	1000	1/16/74 National Board No. 736
Model No En Order No _ No.	LZZY Contract Date	National Board No. 730
Manufactured For Stone & Webste	er Engineering Corporative and Address	tion Order No. 2BV-225
Duquesne Light	t Co., Shippingport, Po	ennsylvania
· Vener	Name and Address	
Location of Plant Beaver Valley	Power Station, Shipping	ngport, Pennsylvania
-		
. Valve Identification _ 2MSS-SVIOLC	Serial No. <u>N57636-00-0</u>	003 Drawing No DS-C-57636 Rev. D
Safatu		P 10
Type Salety Pales Dalor Power	Actuated Onlice Size	R Pipe Size —— Inlet 6 Outlet 10
		561° F
Set Pressure (PSIG) 1075		561° Fated Temperature
Stamped Capacity 811237		
Stamped Capacity	% Overpres	tants Broadday (b2IC)
Hydrostatic Test (PSIG) Inlet		Code, Section III.
Pressure Containing or Pressure Reta	-	
Forgings	Serial No.	Material Specification
*-X200656X	Identification	Including Type of Grade
	N90810-31-0006	ASTM A105-73 ASME SA105
Body	ar.	ASTH ALC5-73
Bonnet	N90813-31-0006	ASME SA105
b. Ber Stock and Forgings		
Support Rods	Company of the Compan	ASTM Aloz-/3 Gr. F316
Wozzle	N90812-31-0014	ASME SA182 Gr. F316
•	N91124-34-0094	ASTM A182-73 Gr. F316 ASME SA182 Gr. F316
Disc Insert	N90089-36-0106	ASIM A105-71
Spring Washers K57217-33-00	033 N89001-39-0200	ASME SA105
Adjusting Bolt	N90766-32-0040	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6
Spindle K57208-33-0069	N88895-41-0142	ASTM A193-/3 Gr. B6 ASME SA193 Gr. B6

POTAER MALLEY LINIT

1 Q 12241 P.O. NO. __ MARK I VENDOR'S NAME CROSSY Specification Serial No. or Identification Including Type or Grade K57217-33-0033 NX2626-0080 ASTN A552 c. Sprine . d. Boiting e. Other Parts such as Pilot Components ASNE SA193 Gr. B6 N90087-38-0111 Bearing Adapter A193 Gr. ASTM N88480-0588 thru 0593 ASME SA193 Gr. Stud ASTM A194 Nut N88481-0588 thru 0593 Stud N90764-0301 thru 0312 ASME SA193 Gr. We certify that the statements made in this report are correct. Date 2-15 19 77 Signed Crosby Valve & Gage Co. By Manufacturer expires October 28, 1977 926 Certificate of Authorization No.

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the Sational Board of Boiler and Pressure Vessel inspectors and the State or Province of Mass. and employed by Factory Mutual Systems*, Norwood, Mass. have inspected the equipment described in this Data Report on 2-15 1917 and state that to see best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date 2350 19 77 Penn. WC-2153

Therefore Commissions Man (26 9)

Therefore Commissions Man (26 9)

Therefore Commissions Man (26 9)

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By An	derson Greenwood Crosby, 43 k	Kendrick St., Wrentham, MA 02093
		d Address
Model No. HA 65 FN Order I	No. U713050000 Contract Date	5/28/03 National Board No
2. Manufactured For	FIRST ENERGY CORP.	Order No. 7125633
	Name and Address	
3. Owner		
4. Location of Plant	Name and Add BEAVER VALLEY,	SHIPPINGPORT, PA
5. Valve Identification SPAR	Serial No. N57636	-00-0020 Drawing No. DS-C-57636 REV. F
Type SAFETY	Orifice Size 4.51	3 Pipe Size Inlet 6 Outlet 10
Safety, Safety Relief, Pilot, 1	Power Actuated Inch	Inch Inch
6. Set Pressure (PSIG)	1075	555 ° I
		Rated Temperature
Stamped Capacity 81868	5@3 % Overpro	essure 5% Blowdown (psig) 54
Hydrostatic Test (PSIG) Inlet	1800 Complete V	alve
7. The material, design, construction a Class 2 Edition Pressure Containing or Pressure Re	1971 Addenda Date	SUMMER 1973 Case No. 1574
·	Serial No.	Material Specification
a. Castings	Identification	Including Type or Grade
Body	N90810-34-0022	ASTM A105
Bonnet	N90813-33-0020	ASTM A105
b Bar Stock and Forgings		
Support Rods		<u></u>
Nozzle	N90812-37-0022	ASTM A182 F316
Disc	N91124-77-0411	ASTM A182 F316
	N90089-51-0155	ASTM A105
Spring Washers	N89001-64-0301	ASTM A105
Adjusting Bolt	N90766-43-0127	ASTM A193 B6
Spindle	N88895-69-0399	ASTM A193 B6

Q.C.-44C-1 Sheet 2 of 2

Form NV-1 (Back)	Certificate Holder's Seria	d No.	N57636-00-0020	Sheet 2 of 2
•		Serial No.		Material Specification Including Type or Grade
c. Spring		NX2626-0141		ASTM A689
d. Bolting				
e. Other Parts such as P	ilot Components	· · · · · · · · · · · · · · · · · · ·		
BEARING ADAPTE	R N	90087-54-0396	ASTM	I A193 B6
BONNET STUD	N8	88480 - NE53	ASTM	A193 GR B7
BONNET NUT	N.	88481 - DHJ4(3) &	AF3 ASTM	A194 CL 2H
INLET STUD	NS NS	90764 - J45-1	ASTM	A193 GR B7
		<u>andre in the contract of the </u>	· · · · · · · · · · · · · · · · · · ·	
•				
Certificate of Authorizati	ion No. N-1878	Expires	Sep. 30, 20 Date	04
•	CERTIFICA	TE OF SHOP IN	ISPECTION	
•	holding a valid commission issued f <u>MASS</u> and employed by ABS G	•		re Vessel Inspectors and the
have inspected the	e equipment described in this I	Data Report on	· · · · · · · · · · · · · · · · · · ·	
Imanula de a seid bis	lief, the Manufacturer has con	<u>/-/7-</u> 2003		<u>-</u>
Subsections of AS	 In the second of	istructed this equipm	icin in accordance m	in the applicable
concerning the eq	ertificate, neither the Inspector juipment described in this Data any manner for any personal in is inspection.	a Report. Furtherm	ore, neither the Insp	ector nor his employer
Date	DEC 5	2003	·	
	West - Commis	sions MA	1420-N	1
	Inspector)		oard, State, Province	and No.)

Form No	•	1765

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

. Owner <u>F.E.N.O.C</u> (NAME)			_ Dat	e	11/0	4/06	
76 South I	Main Street - Akr	on, OH 44308	_ She	eet <u>1</u>	of		3
Plant	Beaver Valley P	ower Station (BV	<u>/PS)</u> Uni	t No.		2	
	Shippingport, P.	A 15077		Work O		00086068 I P.O. No., Job N	o., etc.
Work Perfo	ormed By <u>BVPS</u>	-Construction Se	ervice Typ	e Code Symbol	Stamp	1	N/A
	Shippingport, P.	• • •	Aut	horization No		N/A	
	(ADDRESS)		Exp	oiration Date _		u	
Identification	on of System	Main Steam (C	lass 2)				
	le Section XI Code Co on of Components						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed. or Installed	ASME Code Stamped (Yes or No
afety Valve	Crosby Valve	N57636-00-0006	739	2MSS-SV102C	1977	Removed	Yes
afety Valve	Anderson Greenwood Crosby	N57636-00-0019	N/A	2MSS-SV102C	2003	Installed	Yes
Plug	Energy & Process	N/A	N/A	Lot #9428	2006	Installed	No
						, , , , , , , , , , , , , , , , , , ,	
	. I			nd installed a dra			L

*Record test pressure and temperature

	R	
	CERTIFICATE OF COMPLIAN	CE
certify that the statements made i	n the report are correct and that this	conforms to the requirements of the ASME
le, Section XI.		
e Code Symbol Stamp N/A		
· · · · · · · · · · · · · · · · · · ·		
ificate of Authoriza tion NoN	I/A Expiration Date	N/A
$C_{0}\left(\cdot \right)$		· ·
ned Helite	Senior Specialist Date	November 22 , 20 <u>06</u>
Owner or Owner's Desi	ignee, Title	
	CERTIFICATE OF INSERVICE INSPE	CTION
· · · · · · · · · · · · · · · · · · ·		
the undersigned holding a valid commi	ission issued by the National Roard of R	nilar and Prossura Vassal Inspectors
The state of the s	ission issued by the National Board of Bo	
d the State or Province of Pennsyl	Ivania and employed by <u>HSB C</u>	T of ts described in this
d the State or Province of Pennsyl	Ivania_ and employed byHSB C	T of ts described in this
d the State or Province of Pennsyl Hartford, CT when's Report during the period	lvania and employed by HSB C have inspected the componen 4-27-05 to	T of ts described in this
d the State or Province of Pennsyl Hartford, CT wher's Report during the period st of my knowledge and belief, the Ow	lvania and employed by HSB C have inspected the componen 4-27-05 to	of ts described in this $\frac{1}{-1}$ and state that to the sen corrective measures described in this
d the State or Province of Pennsyl Hartford, CT wher's Report during the period st of my knowledge and belief, the Ow wher's Report in accordance with the re	have inspected the component when the component with the component with the component with the component to	T of ts described in this //-((- 0 & , and state that to the ten corrective measures described in this XI.
the State or Province of Pennsyl Hartford, CT wher's Report during the period st of my knowledge and belief, the Owner's Report in accordance with the responsibility of this certificate neither the insp	and employed by HSB C have inspected the componen 4-27-05 to mer has performed examinations and take equirements of the ASME Code, Section elector nor his employer makes any warrance.	of ts described in this //// 6, and state that to the en corrective measures described in this XI. Inty, expressed or implied, concerning the
Hartford, CT Marer's Report during the period st of my knowledge and belief, the Owner's Report in accordance with the responsibility of the state of the control of the c	have inspected the component of the ASME Code, Section rector nor his employer makes any warra escribed in this Owner's Report. Further	ts described in this //-/(- 0 6, and state that to the ten corrective measures described in this XI. Inty, expressed or implied, concerning the more, neither the inspector nor his employer
Hartford, CT Mer's Report during the period st of my knowledge and belief, the Owner's Report in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance in	have inspected the component of the ASME Code, Section rector nor his employer makes any warra escribed in this Owner's Report. Further	of ts described in this //// 6, and state that to the en corrective measures described in this XI. Inty, expressed or implied, concerning the
Hartford, CT Mer's Report during the period st of my knowledge and belief, the Owner's Report in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance with the resistance in accordance in	have inspected the component of the ASME Code, Section rector nor his employer makes any warra escribed in this Owner's Report. Further	ts described in this //-/(- 0 6, and state that to the ten corrective measures described in this XI. Inty, expressed or implied, concerning the more, neither the inspector nor his employer
Hartford, CT When the State or Province of Pennsyl Hartford, CT When the State or Province of Pennsyl Hartford, CT When the State of Hartford, CT When the	have inspected the component of the ASME Code, Section rector nor his employer makes any warra escribed in this Owner's Report. Further	ts described in this //-/(- 0 6, and state that to the ten corrective measures described in this XI. Inty, expressed or implied, concerning the more, neither the inspector nor his employer
Hartford, CT Mer's Report during the period est of my knowledge and belief, the Owner's Report in accordance with the revisioning this certificate neither the inspraminations and corrective measures deall be liable in any manner for any pers	have inspected the component to to to to to to to to to to to to to	ts described in this //-/(- 0 6, and state that to the ten corrective measures described in this XI. Inty, expressed or implied, concerning the more, neither the inspector nor his employer



ROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ALME Code Suites

Q.C.-44C

DATA REPORT Safety and Safety Relief Valves

The state of the second st		A SAME WELL
Manufactured By Crosby Valve &	Gage Co., 43 Kendrick	St., Wrentham, Mass. 02093
HA-65-	Name and Address	
Model No FN Order No N419	90Contract Date_1/	/16/74 National Board No. 739
Manufactured For Stone & Webster	Engineering Corp.	Order No. 2BV-225
Name	and Address	
Owner Duquesne Light	Co., Shippingport, Pena	nsylvania
•	Name and Address	•
Location of Plans Beaver Valley P	ower Station, Shipping	port, Pennsylvania
•		
Valve Identification 2MSS-SV102C	_Serial No. N3/036-00-0006	Drawing No. US-C-5/636 Rev. D
Type Safety	Orifice Size R	Pipe Size Inlet 6 Outlet 10
Safety Safety Relief Pilot, Power Ac	tuaced Inch	inch inch inch
Set Pressure (PSIG) 1085	-	561°F
		Rated Temperature
Stamped Capacity 818685	3 = Overpressure	e 5% Blowdown (PSIG)54
· .		
Hydrostatic Test (PSIG) Inlet 180	Complete '	Valve
•		
. The material, design, construction and wo	rkmanship comply with ASME Cod	e. Section III.
Class 2 Edition 1971	Addenda Date Summer	1973
· ·	,	
Pressure Containing or Pressure Retaining	g Components	
Forgings	Serial No.	Material Specification
	Identification	Including Type or Grade
	and the second s	ACTY ALOS 72
Bedy	N90810-31-0014	ASME SA105 ASTM A105-73
Bonne:	N90813-31-0002	ASME SA105
h. Bar Sinck and Forgings	The second of the second of the second of	
1 1 T T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9.1. · · · · · · · · · · · · · · · · · ·	West Committee C
Support Rade		ASTM A182-73 Gr. F316
Motrie	N90812-31-0010	ASME SA182 Gr. F316 ASTM A182-73 Gr. F316
Desc Insert	N91124-34-0087	ASME SA182 Gr. F316
Spring Washers K57217-33-0036	N89001-39-0202	ASIM A105-/1 ASME SA105
	N90766-32-0038	ASIM A193-71 Gr. 36
Adjusting Bolt		351% A193-13 Gr. 56
Spindle K57208-33-0072	N88895-41-0145	ASME SA193 Gr. 56

		MARK NO.	-dons	SV 102C
	Serial No. or	VENDOR'S NAME		Man
	Ide ntification	-	Including Tyl	e or Grade
c. Spring K57217-33-0072	NX2626-0071	-	ASTM A552	
d. Bolting		-		
e. Other Parts such as Pilot Components			, , , , , , , , , , , , , , , , , , , 	
Bearing Alapter	N90087-36-01		ASIM ALY3 ASME SA193	-/1 Gr. B6 Gr. B6
Stud	N88480-0606		ASIM A193 ASME SA193	
Nut	N88481-0606		ASTE SAISE	E1: 3H
Stud	N90764-0337			Gr. 37
		·		
:				
				
	·			· · · · · · · · · · · · · · · · · · ·
	·			
We certify that the statements made in this	s report are correct.			
Date 2-15 19 77 Signed	Crosby Valve	& Gage Co. Ru	Chi C	Alman
. As designed	Manufacturer		Q	A Manager
88.6		0-1-1	1077	
Certificate of Authorization No. 926	expire:	October 28,	19//	

CERTIFICATE OF SHOP INSPECTION
I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of Mass. and employed by Factory Nutual Systems*, Norwood, Mass.
inspected the equipment described in this Data Report on
By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Date
Inspectors Commissions Manifold State Province and No.

^{*}Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By		ndrick St., Wrentham, MA 02093
	Name and	
Model No. HA 65 FN Ord	er No. U713050000 Contract Date	5/28/03 National Board No
2. Manufactured For		Order No. 7125633
•	Name and Address	
3. Owner	FIRST ENERGY CORP., SHI	PPINGPORT, PA
منفق ما مراد الراد الم	Name and Addr BEAVER VALLEY, S	ess Management
4. Location of Plant	BEAVER VALLEY, 5	HIPPINGPORT, PA
5. Valve Identification SI	PARE Serial No. N57636-0	0-0019 Drawing No. DS-C-57636 REV. F
Type SAFETY	Orifice Size 4.513	Pipe Size Inlet 6 Outlet 10
Safety, Safety Relief, Pilo	t, Power Actuated Inch	Inch Inch
6. Set Pressure (PSIG)	1085	556 ° I
		Rated Temperature
Stamped Capacity 818	3685 @ 3 % Overpres	sure 5% Blowdown (psig) 54
•	1800 Complete Val	
Class 2 Edition	1971 Addenda Date	SUMMER 1973 Case No. 1574
Pressure Containing or Pressure	Retaining Components	
	Serial No.	Material Specification
a. Castings	Identification	Including Type or Grade
Body	N90810-34-0019	ASTM A105
	» N90813-33-0019	ASTM A105
b. Bar Stock and Forgings		3
Support Rods	en en en en en en en en en en en en en e	
Nozzle	N90812-37-0023	ASTM A182 F316
Disc	N91124-77-0409	ASTM A182 F316
:	N90089-51-0153	ASTM A105
Spring Washers	N89001-64-0300	ASTM A105
Adjusting Bolt	N90766-43-0126	ASTM A193 B6
Spindle	N88895-69-0391	ASTM A193 B6

Form NV-1 (Back)

Certificate Holder's Serial No.

N57636-00-0019

	Serial No. Identification	Material Specification Including Type or Grade
c. Spring	NX2626-0140	ASTM A689
d. Bolting		
e. Other Parts such as Pilot Components		
BEARING ADAPTER	N90087-56-0416	ASTM A193 B6
BONNET STUD	N88480 - NE53	ASTM A193 GR B7
BONNET NUT	N88481 - DHJ4	ASTM A194 CL 2H
INLET STUD	N90764 - J96	ASTM A193 GR B7
11001		
	<u>,,</u>	
Certificate of Authorization No. N-	-1878 Expires	Sep. 30, 2004 Date
	-1878 Expires	Date
	FICATE OF SHOP INSPE	Date CTION
I, the undersigned, holding a valid commission State of Province of MASS and emp	FICATE OF SHOP INSPE on issued by the National Board of Bo loyed by ABS Group Inc., Houston, Texas	Date CTION Diler and Pressure Vessel Inspectors and the
I, the undersigned, holding a valid commission State of Province of MASS and emp	FICATE OF SHOP INSPE on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texas in this Data Report on	Date CTION Diler and Pressure Vessel Inspectors and the
I, the undersigned, holding a valid commission State of Province of MASS and emp	on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texasin this Data Report on 1/-/7 - 20 0.3 ar	Date CTION Diler and Pressure Vessel Inspectors and the state that to the best of my
I, the undersigned, holding a valid commission State or Province of MASS and empthave inspected the equipment described knowledge and belief, the Manufacturer	FICATE OF SHOP INSPE on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texas in this Data Report on //-//- 20 0 3 ar has constructed this equipment in spector nor his employer makes a his Data Report. Furthermore, no	Date CTION Diler and Pressure Vessel Inspectors and the state that to the best of my accordance with the applicable any warranty, expressed or implied, either the Inspector nor his employer
I, the undersigned, holding a valid commission State or Province of MASS and empthave inspected the equipment described knowledge and belief, the Manufacturer Subsections of ASME Section III. By signing this certificate, neither the Inconcerning the equipment described in the shall be liable in any manner for any perconnected with this inspection.	on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texasin this Data Report on //-//- 2003 are has constructed this equipment in a spector nor his employer makes a his Data Report. Furthermore, no resonal injury or property damage of the second constructed that the second constructed this employer makes a his Data Report. Furthermore, no resonal injury or property damage of the second constructed that the second constructed this employer makes a second construct	Date CTION Diler and Pressure Vessel Inspectors and the second state that to the best of my accordance with the applicable any warranty, expressed or implied, either the Inspector nor his employer or a loss of any kind arising from or
I, the undersigned, holding a valid commission State or Province of MASS and empthave inspected the equipment described knowledge and belief, the Manufacturer Subsections of ASME Section III. By signing this certificate, neither the Inconcerning the equipment described in the shall be liable in any manner for any perconnected with this inspection.	on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texasin this Data Report on //-//- 2003 are has constructed this equipment in a spector nor his employer makes a his Data Report. Furthermore, no resonal injury or property damage of the second constructed that the second constructed this employer makes a his Data Report. Furthermore, no resonal injury or property damage of the second constructed that the second constructed this employer makes a second construct	Date CTION Diler and Pressure Vessel Inspectors and the second at the second at the second accordance with the applicable any warranty, expressed or implied, either the Inspector nor his employer or a loss of any kind arising from or
I, the undersigned, holding a valid commission State or Province of MASS and empthave inspected the equipment described knowledge and belief, the Manufacturer Subsections of ASME Section III. By signing this certificate, neither the Inconcerning the equipment described in the shall be liable in any manner for any perconnected with this inspection.	FICATE OF SHOP INSPE on issued by the National Board of Boloyed by ABS Group Inc., Houston, Texas in this Data Report on //-//- 20 0 3 ar has constructed this equipment in spector nor his employer makes a his Data Report. Furthermore, no	Date CTION Diler and Pressure Vessel Inspectors and the second state that to the best of my accordance with the applicable any warranty, expressed or implied, either the Inspector nor his employer or a loss of any kind arising from or

Form No.	1766	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

. Owner	F.E.N.O.C		_ Dat	te	11/0	4/06	
76 South M	1ain Street – Akro	on, OH 44308	_ She	eet1	of		3
Plant	Beaver Valley P	ower Station (BV	<u>PS)</u> Uni	it No		2	_·
 	Shippingport, PA	A 15077		Work Or Repair/Replacement		00016310 P.O. No., Job N	o., etc.
. Work Perfo	rmed By <u>BVPS</u>	-Construction Se	<u>rvice</u> Typ	pe Code Symbol	Stamp		√A
·	Shippingport, PA	\ 15077	Aut	thorization No	ì	N/A	
	(ADDRESS)		Ex	oiration Date _		44	
Identificatio	n of System	Main Steam (CI	ass 2)			-	
(c) Applicable	e Edition of Section X e Section XI Code Ca n of Components		Replacement Activ	rity <u>1989</u>			
Name of Componen	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
Safety Valve	Crosby Valve	N57636-00-0009	742	2MSS-SV103C	1977	Removed	Yes
Safety Valve	Anderson Greenwood Crosby	N57636-00-0018	N/A	2MSS-SV103C	2003	Installed	Yes
Plug	Energy & Process	N/A	N/A	Lot #9428	2006	Installed	No
	·						
	,		J 1-1				
					in plug.		· · · · · · · · · · · · · · · · · · ·

Remarks Code Data Report attached. Replacement 1-3/8" Nuts: P.O. 45136785 / Ht. #P366. Applicable Manufacturer's Data Reports to be attached	
	
·	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ode, Section XI.	ASME
pe Code Symbol Stamp N/A	
ertificate of Authorization No. N/A Expiration DateN/A	
gned Senior Specialist Date November 22 , 20 Owner's Designee, Title	06
CERTIFICATE OF INSERVICE INSPECTION	
CERTIFICATE OF INSERVICE INSECTION	
, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
and the State or Province of Pennsylvania and employed by HSB CT of	
Hartford, CT have inspected the components described in this	
Owner's Report during the period $\frac{4-27-05}{10}$ to $\frac{11-11-06}{10}$, and state that to the	
pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Dwner's Report in accordance with the requirements of the ASME Code, Section XI.	5
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning th	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his empl	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected w	ith
this inspection.	
Dear I. Lynn Commissions I, N. P+2384	
Inspector/Signature National Board, State, Province, and Endorsements	
Date 12-1-, 20 0 6	•



CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

Q.C.-44C

DATA REPORT Safety and Szizzy Relief Valves

vanufactured By Crosby Valve &	Gage Co., 43 Kend	rick St	., Wrentham, Mass. 02093
HA-65-	Name and Address		
Model No. FN Order No. N419	90Contract D	ate 1/1	6/74 National Board No. 742
Manufactured For Stone & Webste	r Engineering Corp	•	Order No. 2BV-225
Owner Duquesne Light	Co., Shippingport	, Penns	ylvania
•	Name and Address		•
Location of Plant Beaver Valley	Power Station, Shi	ppingpo	rt, Pennsylvania
Valve Mentification 2MSS-SV103C	Serial NoN57636-0	0-0009 _C	Drawing No. DS-C-57636 Rev. D
Type Safety	Orifice Size		ripe Size Inlet 6 Outlet 10
Safety, Safety Relief, Pilot, Power		inch	Inch Inch tack
Set Pressure (PSIG) 1095	•		561° F
			Rated Temperature
Stamped Cupacity 826132	3 % Over	pressure	5% Blowdown (PSIC) 55
The material, design, construction and to Class 2 Edition 1971 Pressure Containing or Pressure Retain	,Addenda DateS		973
· · · · · · · · · · · · · · · · · · ·			
Forgings . KKNNEK	Serial No. Ideatification		Material Specification Including Type or Grade ASTM A105-73
Body	N90810-31-0015		ASME SA105
Bonnet	N90813-31-0008	٠.	Astm A 105-73 Asme-SA-105
b. Bar Stock and Forgings			
Support Rods			Table 1
Nozzle	N90812-31-0013		ASTN A182-/3 Gr. F316 ASME SA182 Gr. F316
Disc Insert	N91124-34-0084		ASTN A182-73 Gr F316 ASME SA182 Gr. F316
Spring Washers K57217-33-003	N89887-36-8190 N89881-39-8195		ASTM A105-71 ASME SA105
Adjusting Bolt	N90766-32-0049	ν.	ASTM A193-71 Gr. 86 ASME SA193 Gr. 36
Spindle K57208-33-0083	N88895-41-0144		ASIM A193-73 Gr. 86 ASME SA193 Gr. 86
	•		

WENTER TALLET UNIT Z

J. O. 12241 P.O. NO. _ 281-225 CN NRAM 3000 W 1030 **VENDOR'S NAME** OROSBU Serial No. or Material Specification **Identification** Including Type or Grade : Spring K57217-33-0037 NX2626-0067 ASTH A552 1. Boiting to Other Parts such as Priot Components N90087-36-0106 Bearing Adapter ASME SA193 Gr. B6 KIZA A193 Gr. **B7** N88480-0624 thru 0629 Stud SA193 Gr. **ASME** 1515A N88481-0624 thru 0629 Nut ASNE SA194 C1 A193 Gr. ASTM Stud N90764-0373 thru 0384 ASME SA193 Gr. Ve certify that the statements made in this report are correct. Date 2 - 15 19 77 Signed Crosby Valve & Gage Co. Br. Manufacturer 926 expires October 28, 1977 Pertificate of Authorization No. _ CERTIFICATE OF SHOP INSPECTION 1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Mass. Pressure Vessel Inspectors and the State or Province of ____ _ and employed his Factory Mutual Systems*, Norwood, Mass. . have inspected the equipment described in this Data Report on ... 19 ZZ and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III. By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data-Report Furthermore, neither the Inspector for his employer shall be liable in any manner for any personal injuty or property damage or a loss of any kind arising from or connected with this inspection Date

- Commissions

(Hisaberion)

National Board State, Process in and No.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By Ande	rson Greenwood Crosby, 43 Ken	drick St., Wrentham, MA 02093
	Name and A	
Model No. HA 65 FN Order No	. <u>U713050000</u> Contract Date	5/28/03 National Board No
2. Manufactured For	FIRST ENERGY CORP.	Order No. 7125633
	Name and Address	ODIODODA DA
3. Owner	FIRST ENERGY CORP., SHIP! Name and Addres	
4. Location of Plant	BEAVER VALLEY, SH	
5. Valve Identification SPARE	Serial No. N57636-00	0018 Drawing No. DS-C-57636 REV. I
Type SAFETY	Orifice Size 4.513 I	Pipe Size Inlet _ 6 Outlet 10
Safety, Safety Relief, Pilot, Po	wer Actuated Inch	Inch Inch
6. Set Pressure (PSIG) 1		557
		Rated Temperature
Stamped Capacity 826132	@ _3_% Overpressi	re 5% Blowdown (psig) 55
Hydrostatic Test (PSIG) Inlet	1800 Complete Valve	
7. The material, design, construction and	d workmanship comply with ASM	IE Code, Section III.
Class 2 Pairies	1071 Addanda Data CI	IMMED 1072 Core No. 1574
Class 2 Edition	Addenda Date 30	UMINIER 1973 Case No. 1374
Pressure Containing or Pressure Retain	ining Components	
J		·
	Serial No.	Material Specification
a. Castings	Identification	Including Type or Grade
Body	N90810-34-0020	ASTM A105
Bonnet	N90813-33-0018	ASTM A105
b. Bar Stock and Forgings		
Support Rods		
· · · · · · · · · · · · · · · · · · ·		
Nozzle	N90812-37-0020	ASTM A182 F316
Disc	N91124-77-0412	ASTM A182 F316
	N90089-51-0154	ASTM A105
Spring Washers	N89001-64-0299	ASTM A105
Adjusting Bolt *	N90766-43-0125 110003	ASTM A193 B6
Spindle	N88895-69-0404	ASTM A193 B6

Certificate Holder's Serial No.

N57636-00-0018

	Serial No.	Material Specification
	Identification	Including Type or Grade
Spring	NX2626-0139	ASTM A689
Bolting		
Other Parts such as Pilot Components		
BEARING ADAPTER	N90087-54-0409	ASTM A193 B6
BONNET STUD	N88480 - NE53	ASTM A193 GR B7
BONNET NUT	N88481 - DHJ4	ASTM A194 CL 2H
INLET STUD	N90764 - J45-2	ASTM A193 GR B7
,		
	·	
rtificate of Authorization No.	N-1878 Expires	Sep. 30, 2004 Date
, , <u>CE</u> ,	RTIFICATE OF SHOP INSPE	CCTION
I, the undersigned, holding a valid com- State or Province of <u>MASS</u> and		oiler and Pressure Vessel Inspectors and the
have inspected the equipment descri		
		nd state that to the best of my
knowledge and belief, the Manufact Subsections of ASME Section III.	urer has constructed this equipment in	accordance with the applicable
concerning the equipment described	the Inspector nor his employer makes a lin this Data Report. Furthermore, no y personal injury or property damage	either the Inspector nor his employer or a loss of any kind arising from or
Date	DEC 5, 2003 * VI Commissions MA-143 (National Board, S	1915/12/103
(Johnector)	Commissions MA-143	D _O − N State, Province and No.)
(approve)	tranciai Maid	June, a rotalist military

					For	m No.		1767
F(ORM NIS-2 OWI As Requir	NER'S REPORT ed by the Provi			_,		IVITY	
1. Owner	F.E.N.O.C		_	Date		11/0	4/06	
76 South M	lain Street - Akro	on, OH 44308		Sheet	1	of		3
2. Plant	Beaver Valley P	ower Station (B)	<u>/PS)</u> (Jnit No)		2	
	Shippingport, PA	A 15077		1	Work O		00016316 P.O. No., Job N	o., etc.
3. Work Perfor	rmed By <u>BVPS</u>	-Construction Se	ervice T	Гуре С	ode Symbol	Stamp		1/A
	Shippingport, PA	A 15077			zation No		N/A	· ···
A Identification	n of System _	Main Steam (C	,	Expirat	ion Date _		······································	
(b) Applicable	Construction Code e Edition of Section > e Section XI Code Con of Components	(I Utilized for Repain ase(s): <u>N/A</u>						
Name of Component	Name of Manufactures	Manufacturer Serial No.	National Board No.		Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Safety Valve	Crosby Valve	N57636-00-0012	745	21	MSS-SV104C	1977	Removed	Yes
Safety Valve	Anderson Greenwood Crosby	N57636-00-0017	N/A	21	MSS-SV104C	2003	Installed	Yes
Plug	Energy & Process	N/A	N/A		Lot #9428	2006	Installed	No
		·						
	*	<u></u>		1				
	of Work Rep							
8. Tests Cond	ucted: 'Hydros Other				al Operating Test Temp.			

	Applicable Manufacturer's Data Reports to b	
		·
	CERTIFICATE OF COMPLIANCE	CE
certify that the statements mad	e in the report are correct and that this	conforms to the requirements of the ASME
le, Section XI.	o m the report are convect and that the	Common to the requirements of the reme
a Carda Cumbal Stama N/A		
e Code Symbol Stamp N/A		-
tificate of Authorization No.	N/A Expiration Date	N/A
lo. X.		
ned AUGO Owner or Owner's I	Senior Specialist Date	November 22 , 20 <u>06</u>
· Owler of Owler's	Designee, File	
	CERTIFICATE OF INSERVICE INSPE	CCTION
the undersigned, holding a valid con	nmission issued by the National Board of Bo	niler and Pressure Vesset Inspectors
	nsylvania and employed by HSB C	
Hartford, CT	· · ·	
wner's Report during the period		11-11-06, and state that to the
est of my knowledge and belief, the (Owner has performed examinations and tak	en corrective measures described in this
wner's Report in accordance with the	e requirements of the ASME Code, Section	XI.
signing this certificate neither the ir	nspector nor his employer makes any warra	
	the contract of the contract o	
and the second of the second o		of any kind ansing from or connected with
nall be liable in any manner for any p		or any land arong from or confronce with
iall be liable in any manner for any p	ersonal injury or property damage or a loss	or any find along from or conflicted with
caminations and corrective measures tall be liable in any manner for any p is inspection.		and along non-order way
nall be liable in any manner for any p		I, N, 1+2384
nall be liable in any manner for any p	Commissions	T, W, A 3 8 4 National Board, State, Province, and Endorsements



CROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

Q.C.-44C

DATA PEPORT
Saloty and Saloty : elief Valves

	Baidly and Salety : eller valve	8
HA-65-	Name and Address	2 St., Wrentham, Mass. 02093 1/16/74 National Board No. 745
Name	and Address	Order No. 2BV-225
Owner Duquesne Light	Co., Shippingport, Pe	ennsyvlania
	Name and Address	
. Location of Plant Beaver Valley P	ower Station, Shipping	ngport, Pennsylvania
. Valve [dentification 2MSS-SV104C	_Serial No. N57636-00-00	D12 Drawing No. DS-C-57636 Rev. D
Type Safety	Orifice Size	R Pipe Size inlet 6 Outlet 10
Safety Safety Relief Pilot Power A		
Set Pressure (PSIG) 11.10	•	561 ⁰ F
Stamped Capacity 837303	- 3 = Gverpres	sure 5% Blowdown (PSIG) 56
Hydrostatic Test (PSIG) Inlet18	OO Comple	te Valve
. The material, design, construction and we	orkmanship comply with ASME (Code, Section III.
Class 2 Edition 1971	,Addenda DateSumm	mer 1973, Case No. 1574
Pressure Containing or Pressure Retains		
Forgings • XXXXXX	Serial No. Identification	Material Specification including Type or Grade ASTM A105-73
Body	N90810-31-0005	ASME SA105
Bonnet	N90813-31-0013	ASTM A105-73 ASME SA105
b. Bar Stock and Forgings		
Support Reds		Action 1100 11 A. WITE
Nozzle	N90812-31-0015	ASTM A182-73 Gr. F316 ASME SA182 Gr. F316
Disc Insert	N91124-34-0088 - N90089-36-0094	ASTM A182-73 Gr. F316 ASME SA182 Gr. F316
Spring Washers K57217~33-0029		ASME SAIO5
Adjusting Bolt	N90766-32-0050	ASTM A193-71 Gr. B6 ASME SA193 Gr. B6
Spindle K57208-33-0081	N88895-41-0146	ASTM A193-73 Gr. B6 ASME SA193 Gr. B6

		MARK NO.	21	55-5V 109C
		VENDOR'S NAME		CENBY
40	Serial No. or			leisal Specification
	Identifica-san		Incl	uding Type or Grade
c. Spring K57217-33-0029	NX2626-0077	-i	ASTM	A552
d. Bolting	-	A STATE OF THE STA		
e. Other Parts such as Pilot Components		~~ ;***********************************		
Bearing Adapter	N90087-34-20	82		SA193 Gr. B6
Stud	N88480-0642	thru 0647		A193 Gr. B7 SA193 Gr. B7
Nut	N88481-0642	thru 0647		SA194 C1. 2H
Stud	N90764-0409	thru 0420	astm aka	Al93 Gr. B7 SAl93 Gr. B7
•				
	· .			
		*		
				
				
We certify that the statements made in this	s report are correct.		_	
Date 2-15 19 77 Signed	Crosby Valve	& Gage Co. n.		4 Cheman
or the manufacture of the state	Manufacturer	<u> </u>	نسکسب	QA Manager
	926	Ostober 29	107	7
Certificate of Authorization No.	740 expires	October 28	, 17/	<u>/</u>

1, 0, 12241 P.O. NO. —

	CERTIFICATE OF SHOP	INSPECTION	
I. the undersigned Pressure Vessel In Factory Mu	, holding a valid commission is speciors and the State or Provid tual Systems*, Norwoo	isued by the National B nce of Mass.	oard of Boiler and and employed by have
inspected the equip state that to the be	ment described in this Data Re at of my knowledge and belief, with the applicable Subsection	port on <u>62-15</u> the Manufacturer has co	19 ZZ and
pressed or implied, the inspector are h	ertificate, neither the Inspector concerning the equipment desc is employer shall be liable in all any kind arising from or conne	tibed in this Data Reports of manner for any person cred with this inspection	et.Furthermore, neither onal injury or property or
Date _2/	SA 19 77	Pann	we-2153
- Suspector	Commissions	Manai Board Size	1209 Provide and No.

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

DATA REPORT

1. Manufactured By	Anderson Greenwood Crosby, 43 K	endrick St., Wrentham, MA 02093		
	Name and	-,		
Model No. HA 65 FN Orde	no. U/1303000 Contract Date	5/28/03 National Board No		
2. Manufactured For	FIRST ENERGY CORP.	Order No. 7125633		
	Name and Address			
3. Owner	FIRST ENERGY CORP., SH			
4. Location of Plant	Name and Add BEAVER VALLEY, S			
4. Location of Plant	BEAVER VALUET,	SIMI INOLOKI, I A		
5. Valve Identification SP	ARE Serial No. N57636-1	00-0017 Drawing No. DS-C-57636 REV. F		
Type SAFETY	Orifice Size 4.513	Pipe Size Inlet 6 Outlet 10		
	t, Power Actuated Inch	Inch Inch		
6. Set Pressure (PSIG)	1110			
		Rated Temperature		
Stamped Capacity 837	303 @ 3 % Overpre	ssure 5% Blowdown (psig)57		
Hydrostatic Test (PSIG) Inlet	1800 Complete Val	lve		
7. The material, design, construction Class 2 Edition	1971 Addenda Date			
Pressure Containing or Pressure	Retaining Components			
	Serial No.	Material Specification		
a. Castings	Identification	Including Type or Grade		
Body	N90810-34-0021	ASTM A105		
Bonnet	N90813-33-0017	ASTM A105		
b. Bar Stock and Forgings				
Support Rods		i i i i i i i i i i i i i i i i i i i		
Nozzle	N90812-37-0021 ASTM A182 F316			
Disc	N91124-77-0410 ASTM A182 F316			
2.00	N90089-51-0152	ASTM A105		
Spring Washers	N89001-64-0298	ASTM A105		
Adjusting Bolt	N90766-43-0124	ASTM A193 B6		
Spindle	N88895- 69-040 3	ASTM A193 B6		

N57636-00-0017

rm NV-1 (Back) Ceruncate Hold	er's Serial No.	Sqeet 2 (
	Serial No. Identification	Material Specification Including Type or Grade
Spring	NX2626-0138	ASTM A689
lolting		
ther Parts such as Pilot Components		
EARING ADAPTER	N90087-56-0425	ASTM A193 B6
ONNET STUD	N88480 - NE53	ASTM A193 GR B7
ONNET NUT	N88481 - DHJ4	ASTM A194 CL 2H
ILET STUD	N90764 - J45-1	ASTM A193 GR B7

ficate of Authorization No.	N-1878 Expires	Sep. 30, 2004 Date
<u>CER</u> 1	TIFICATE OF SHOP INSPE	CTION
I, the undersigned, holding a valid commis State or Province of MASS and en have inspected the equipment describe	nployed by ABS Group Inc., Houston, Texas d in this Data Report on	oiler and Pressure Vessel Inspectors and the
knowledge and belief, the Manufacture Subsections of ASME Section III.		
By signing this certificate, neither the concerning the equipment described in shall be liable in any manner for any connected with this inspection.	this Data Report. Furthermore, no	either the Inspector nor his employer
Date	Dec 8, 2003	
(Intractor)	Commissions MA-143	LO -/V

RTL # A4.414-A

FORM 1/2-ADM-0801.F02 REV 3

C	A1.	4040	
Form	NO.	1810	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner _	Owner First Energy (NAME)		`D	ate _		9/28/05	(2)	
			s	heet	1	of	1	
	(ADDRESS)							
Plant	Beaver Valley P	ower Station	U	Init No.	2			
	Shippingport, PA	15077	 	Reg	ECP-(3-0061 anization P.0		i <u>.</u>
Work Per	formed By <u>BVPS</u>	Construction (NAME)	т	Type Code Symbol StampN			N/A	
	Shippingport, PA	• •	A	uthoriza	tion No		N/A	
	(ADDRESS)	,	E	xpiratio	n Date		N/A	
Identificat	ion of System	Service Water	r (Code Class	3)				
. (a) Applical ode Case	ole Construction Code	ASME Se	ection III, 19	971	Edition, Winte	<u>r '72</u> A	Addenda,	
(b) Applica	able Edition of Section >	(I Utilized for Repa	ir/Replacement Ad	ctivity	<u>1989</u>			
(c) Applica	able Section XI Code Ca	ase(s) N/A						
Identificat	tion of Components	3					,	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	10	Other lentification	Year Buih	Corrected, Removed, or Installed	ASN E Coo Stan ed (Yo
Pipe	N/A	N/A	N/A	2-SW	S-002-755-3	2005	Installed	N
Pipe	N/A	N/A	N/A	2-SW	S-002-760-3	2005	Installed	N
Pipe	N/A	N/A	N/A	2-SW	S-150-968-3	2005	Installed	N
Pipe	N/A	N/A	N/A	2-SW	S-150-969-3	2005	Installed	N
·		² -03-0061-02. T	his ECP repla	ced Car	bon steel pip	ing with	corrosion	
esistant AL6 alves.	SXN piping and fitti	ngs; also replad	ced carbon ste	el vent a	and drain val	ves with	stainless s	<u>teel</u>

FORM NIS-2 (Back)

Remarks	
Applicable Manufacturer's Data Reports to be attached	
	•
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASI Code, Section XI.	ME
ype Code Symbol Stamp N/A	
, po 6000 6)	
Certificate of Authorization No. N/A Expiration DateN/A	
LAPINGUOTI DATE LAPINGUOTI DATE	
Sample Ming-	
Signed Sanjib K. Mukherjee Date 9/28 , 2005 Owner or Owner's Designee, Title	
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
and the State or Province of Pennsylvania and employed by HSB-CT of	
Hartford, Connecticut have inspected the components described in this	
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{10-28-05}{}$, and state that to the	
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this	
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with	
this inspection.	
The state of the s	
ter Dearway O' al	
Dean S. Lynd Commissions I, N. PA 2384	
Inspeción's Signature National Board, State, Province, and Endorsements	
Date 10 - 28 - 2005	
Date, 2005	

Form	No	1815
L.CHIII	13()	1013

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY ** As Required by the Provisions of the ASME Code Section XI

1. Owner	F.E.N.O.C		_ Dat	e <u></u>	10/2	3/06	
76 South M	76 South Main Street - Akron, OH 44308 (ADDRESS)			eet1	of	1	<u> </u>
2. Plant	Beaver Valley Po	ower Station (B\	<u>/PS)</u> Uni	No		2	
	Shippingport, PA	15077	<u> </u>	Work C		00105607	-10
3. Work Perfo	rmed By <u>FENO</u>	C Maintenance	Тур	e Code Symbol	<u>.</u>		/A
	Shippingport, PA	15077	Aut	horization No		N/A	
	(ADDRESS)		Exp	iration Date _		4	
A Idontificatio	n of System	Fuel Peel Ca-1	ing and Desilies	tion			
(b) Applicabl	e Construction Code le Edition of Section X le Section XI Code Ca ln of Components	I Utilized for Repair/				<u>N/A</u> Code C	ase
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Check Valve	Walworth	A1091	1082	2FNC-109	1978	Corrected	Yes
Studs, 5/8"-11	NOVA Machine	N/A	N/A	S204	2004	Installed	No
Nuts, 5/8"-11	NOVA Machine	N/A	N/A	B439	2001	Installed	No
		<u> </u>	·				
7. Description	of Work Repl	aced 5/8"-11 Bo	ody to Bonnet S	Studs and Nuts			
8. Tests Cond	lucted: Hydrosi Other [ımatic* ☐ No psi	minal Operatinç Test Temp.			mpt 🛛

FORM NIS-2 (Back)

	Vious NIS-2 Data Report: 1317, 1466. Manufacturer's Data Reported Attached to 1317 Applicable Manufacturer's Data Reports to be attached
5/8"-11 Stu	ds PO # 47055279 5/8"-11 Nuts PO# 104336-143
	CERTIFICATE OF COMPLIANCE
	statements made in the report are correct and that this conforms to the requirements of the ASME
ode, Section XI.	
pe Code Symbol	Stamp N/A
ertificate of Author	rization No. N/A Expiration Date N/A
00	
igned Alle	Seriar Specin lit Date October 28 , 20 06
91.00	Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
•	
=	nolding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
	ovince of Pennsylvania and employed by HSB CT of
	have inspected the components described in this $4-27-05$ to $10-27-06$, and state that to the
Owner's Report duri	ge and belief, the Owner has performed examinations and taken corrective measures described in this
	occordance with the requirements of the ASME Code, Section XI.
owner a resport in a	cooldance with the requirements of the nomic code, section N.
By signing this certif	ficate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
	orrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any	manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.	
Λ	
Nean	- S. Lynch Commissions NB9428 ANIB P +2384
	Inspecter's Signature National Board, State, Province, and Endorsements
D	2 7 6
Date	28 - , 20 06

Form No.	1823

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

	······································		
1.	Owner F.E.N.O.C	Date	11/10/06
	76 South Main Street – Akron, OH 44308 (ADDRESS)	Sheet1	of6
2.	Plant Beaver Valley Power Station (BVPS)	Unit No.	2
	Shippingport, PA 15077 (ADDRESS)		r #200109376
3.	Work Performed By BVPS-Maintenance (NAME)	Type Code Symbol Sta	amp <u>N/A</u>
	Shippingport, PA 15077 (ADDRESS)	Authorization No	N/A
		Expiration Date	4
4.	Identification of System Service Water (Class 3		
5.	(a) Applicable Construction Code Section III	1971 Edition, <u>W'72</u> Addenda, _	N/A Code Case
	(b) Applicable Edition of Section XI Utilized for Repair/Replacem(c) Applicable Section XI Code Case(s): N/A	ent Activity 1989	
6	Identification of Components		

Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buit	Corrected. Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Byron-Jackson	731-N-0027	N/A	2SWS-P21A	1982	Corrected	Yes
Bowl Assembly	BW/IP	217885	N/A	901-W-0207	1991	Installed	Yes
Pump Column	Penn Iron Works	≈ 10 <u>-</u> 1	407	Item 23	2002`	Installed	Yes
Pump Column		10-2	408	Item 23	2002`	Installed	Yes
Pump Column	Penn Iron Works	10-4	410	Item 23	2002	Installed	Yes
Bottom Column	Penn Iron Works	30-1	411	Item 22	2002`	Installed	Yes
Middle Column	Penn Iron Works	20-1	406	Item 24	2002	Installed	Yes

7.	Description of Work	Replaced bowl assembly, columns, and studs/nuts.
8.	Tests Conducted:	Hydrostatic [*] ☐ Pneumatic [*] ☐ Nominal Operating Pressure ☒ Exempt ☐
		Other Pressure psi Test Temp °F
		*Record test pressure and temperature

Code, Section XI.

Type Code Symbol Stamp N/A

FORM NIS-2 (Back)

Assembly consists of to		rer's Data Reports to be a ction bell and ac		eplacement 7/
Nuts: P.O. 47051976 / H	lt. #QJR, P.O. 104336-	25 / Ht. #80771	24-MTX, P.O 104	336-189 / Ht.
#QJS, P.O. 47051975/1	Ht. #P170; Studs: P.O.	47063236 / Ht.	#P404, P.O. 470	45137 / Ht. #F
P.O. 104336-244 / Ht. #	F178. Replacement 1	-3/4" Studs: P.C). 45137621 / Ht. i	#P408, 1-1/4"
P.O. 47048563 / Ht. #14	1826(A201), P.O. D149	199-316 / Ht. #6	8395, 1-1/4" Stud	ls: P.O. 45107
•				
Ht. #224781-J662				
	•			
	;,		· .	
	OSSTITION TO O	F COMPLIANCE		

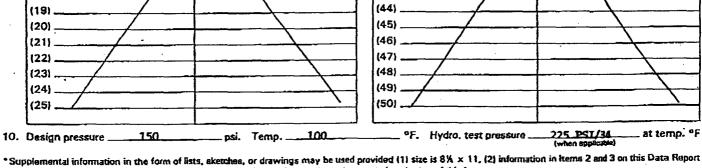
Certificate of Authorization No. N/A Expiration Date N/A

Signed Senior Specific Senior Senio	ecialist Date _	<u>December 13</u> , 20	06
CERTIFICATE OF	INSERVICE INS	PECTION	
I, the undersigned, holding a valid commission issued by the and the State or Province of Pennsylvania and employments. A period Pennsylvania and employments of the Pennsylva	oyed by <u>HSE</u> pected the compor - 05 to examinations and	of ents described in this //-//- 0 6, and stataken corrective measures des	ate that to the
By signing this certificate neither the inspector nor his employexaminations and corrective measures described in this Ow shall be liable in any manner for any personal injury or properties inspection.	mer's Report. Furt	hermore, neither the inspector	nor his employer
Dean J. Zynih Inspector's Signature	Commissions	NB9428ANIB National Board, State, Province, and	
Date 12-14- , 20 06			

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASMF Code Section III

	A-2	Hadanad DA tile i 10412			occuon m	•
	•	Not to Exceed				Pg. 1 of2
. Mac	nufactured and certified by	EW/IP INTERNATIONAL INC 2300 EAST VERNON AVE.	VERNON, C	ALIFORNIA 90	058	N5
	DIKOHESNE L	IGHT COMPANY	(name :	ing aggress of NF1 Cen	uncate Molder)	
. Mac	nufactured for ONE OXFORD	CENTRE, 301 GRANT STRE	RT. PITIS	BURGH, PA 15	279	
• • • • • • • • • • • • • • • • • • • •		VALLEY POWER STATION -	Iname and	s address of Purchaser)		
1 44	SOUTH I	RANK OF THE ORTO RIVER.	SHIPPING	PORT PA 150	77 25 MILES 1	NO OF PITTSBURGH, PA
. Luc	ation of materiation	and of the same and the		(name and address)	THE INCHAS	
	1001171 DEV A	SA-216 GR. NCB	20 000	PST HON.	N/A _	1991
. Typ	00: LOO1171 REV. 0 (drawing no.)	[mar1 spec. no.)	ttensile str		(CRN)	(year built)
	•	•	***************************************	1000	-	
. ASI	ME Code, Section III, Division	1: 1971	WINTER	1972 nda date)	3	ICode Case no.)
	•	(eq.(vo.t)	•	•	•	
. Fab	ricated in accordance with Co	nst. Spec. (Div. 2 only)	N/A	Revision	N/A	DateN/A
			Lon			
Rec	marks: _BM/TP_JOR_NO +	901 - V -0207	, NIONCEN	CLATUPE: 32K	OF 2-STAGE B	MI ASSIMILY
					•	
		. **		21		
_		• • • • • • • • • • • • • • • • • • • •	<u> </u>			
	•					
				O.D.		
Nor	n. thickness (in.)625	Min. design thickness (in.)	_433 ()ia. <u>IOX(</u> ft & in.)	3102 Leng	th overall (ft & in.) <u>6"6".937</u> "
Wh	en applicable, Certificate Hold	lers' Data Reports are attache	d for each'i	tem of this report:		•
				Marine State of the same		
				was since		***
1	Part or Appurtenance	National		Part or Appu	tenance	National
1	Serial Number	Board No.	.	Serial Nu	. 1	Board No.
1	Serial Number		11	OCHAI NO	ITIDEI	•
		in Numerical Order	1.1			in Numerical Order
	•				· · ·	-
T	1) 217885	N/A	 (2	26)		
(:	2)	· · · · · · · · · · · · · · · · · · ·	(2	27)		
170	3)			28)		
1	4)		(2	29)		
1 .	5)	1		30)		
,	6)			31)		7
1.	7)	1		32)	7	
			1 17	K / I	` '	



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 $(41)_{-}$ ${42}$

(43) __

(10)_ (11) 🗀

(12) -

(13)

(14)_

(15)_ (16) __

(17) ___ (18) _____

Is included an each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back - Pg. 2 of _2_)

•	Cartificate Holder's Serial Nos.	217885	through	N/A
C	ERTIFICATION OF DESIGN			
Design specifications cartified by	N/A (when applicable)	P.E. State	N/A Reg. no.	N/A
Design report * certified by	N/A m applicable!	P.E. State	X/A Reg. no	A\X
CE	THE OF COMPLIANCE		-	
We certify that the statements made in this report are come conforms to the rules of construction of the ASME Code, Se	CC BILG CHAL BIRS (F-117)	SSEMBLY		<u>,</u>
NPT Certificate of Authorization No. N-113	1 Expires	MNR-10	1993	
Date 9-30-91 Name BE/IP INTERNATION (NPT Certific		lauti	oritor (spresentative)	
CE	RTIFICATE OF INSPECTION			
of RORROOD, MASS. have inspected these items of best of my knowledge and belief, the Certificate Holder has lill, Division 1. Each part listed has been authorized for stam By signing this certificate, neither the inspector nor his empire this Data Report. Furthermore, neither the inspector nor his	MITTIAL, INS. CO. PACTORY MITTIAL PROPERTY IN THE PROPERTY IN	AL SYSTEM 30 19 es in accordance or implied, con	and sta ce with the ASME C	te that to the ode, Section
Date 9/30/91 Signed Date 1000 Signed	•	15 1275 (Net'l Bd. (Inc.)	CA, WCO 3	310 Rs. ar prov. and hail

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALUES (SUPP.)

Socation of Installat	ONE AND WEBSTER ENG. COR	<u>C- VOTIEN, INHSS.</u> SHIPPINGP BATION FITTS BURB I	ORT BOROUGH t.Pennsylvania
Pump S/N: 731-	N-0017		
SERVIC	c <u>water fumps For Com fon</u> ription of service for which o	ent/System Con	oking.
Pressure Retaining Pi	eces		,
Mark No.	Material Spec. No.	Manufacturer	Remarks
) OTHER PARTS	·		
CA. PIPE	SA-515 GR-70		RIS 158867
Lauer Flange	SA-515 GR-70		RIS 158642
Coh. PIPC	SA-515 GR-70		RIS 158880
Lxwer Flange	SA-515 GR- 70		RIS 158640
COL. PIPE	SA-515 GR. 70		RS 158884
PIPE 1/2" SCH-80	SA-106 GR- B .		RIS 175450
		-	
<i>\(\)</i> .			
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	<u>L</u>	<u></u>	<u> </u>

the "N" symbol expirs 16 June 1984

Authorized Nuclear Inspector: Mohendon N. Contractor
October 1 St. 1982

Carlif-1408, Penn.-WC 245

		K	CORRECTED
Page	 _of		REPORT

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES* As Required by the Provisions of the ASME Code, Section III, Div. 1

ocation of Installation	CAVER VALICY	RENGOCO Nager or Owner) POWERS	CHTION; Littl	5000 6H,	KENNSYLY	ALUA
imp or Valve Fun P		Nominal I		<u>4</u> Ou	itlet Size	14 (inch)
(a) Model No., (b) N	Certificate Holder's	(c) Canadian				(
Series No.	Serial	Registration	(d) Drawing		(f) Nat'l.	(g) Y
or Type	No.	No.	No.	(e) Class	Bd. No.	Bui
, 36.Rxm	731-N-0027	NIA	IF-75//	3	NA	198
2 STG. VCT.			Rev. D			
i)	<u></u>	<u> </u>		• • • • • • • • • • • • • • • • • • • •		
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) <u> </u>					· · · · · · · · · · · · · · · · · · ·	·
i)						
n						
lo) *	<u> </u>				<u> </u>	
•	_					
Service IIIA	TER PUMPS F	CR Com F	ONENT/S	VSTEM I	COLING	,
	(Reial description)	of service for wh	ich equipment was d	Saine a di		
	(Street Agents bares)		an adaptions not a	eeduea)		
esign Conditions/3		//// (Temperature)	°F or Valve P		_N/A	
old Working Pressure	O pei Preseure! psi at 10	(Temperature)	*F or Valve P	ressure Class		
old Working Pressure	O psi	(Temperature)		ressure Class	N/A_	erks .
old Working Pressure	O pei Preseure! psi at 10	(Temperature)	*F or Valve P	ressure Class		erks .
old Working Pressure	O psi psi psi psi psi psi psi psi psi psi	(Temperature)	*F or Valve P	ressure Class		erke 1.28.5
cold Working Pressure :: ressure Retaining Pieces Mark No.	0 psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class		erke 1.885 1.882
old Working Pressure interessure Retaining Pieces Mark No. 1 Castings TOP CASC SERIES CASE SULTION BELL	O psi psi psi psi psi psi psi psi psi psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class		erks 1.885 1.882 4430
old Working Pressure ressure Retaining Pieces Mark No. a) Castings TOP CASC SERIES CASE	0 psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class		1885 1882 4430
old Working Pressure interessure Retaining Pieces Mark No. 1 Castings TOP CASC SERIES CASE SULTION BELL	0 psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class		erke 1.885 1.882 14130 1179 B
old Working Pressure interessure Retaining Pieces Mark No. 1 Castings TOP CASC SERIES CASE SULTION BELL	0 psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class		1885 1882 1430 1179 6
old Working Pressure interessure Retaining Pieces Mark No. 1 Castings TOP CASC SERIES CASE SULTION BELL	O psi	(OO (Temperature) DOF. DEC. NO. WEB WEB WEB	*F or Valve P	ressure Class	Rem. RIS 162 RIS 154 RIS 47	1885 1884 1430 1179 f
old Working Pressure interessure Retaining Pieces Mark No. 1 Castings TOP CASC SERIES CASE SULTION BELL	O psi	(IOO) (Temperature) DOF. Sec. No. WCB WCB	*F or Valve P	ressure Class	Rem. RIS 162 RIS 152 RIS 47	1885 1882 1430 1179 H
Cold Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SERIES CASC SUCTION BELL STUFF BOX	O psi	(OO (Temperature) DOF. DEC. NO. WEB WEB WEB	*F or Valve P	ressure Class	Rem. R/S 16.2 R/S 16.2 R/S 47	1885 1882 14430 1179 E
Cold Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SERIES CASC SUCTION BELL STUFF BOX	O psi	(OO (Temperature) DOF. DEC. NO. WEB WEB WEB	*F or Valve P	ressure Class	Rem. R/S 16.2 R/S 16.2 R/S 47	1885 1884 1430 1179 f
Told Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SCRICS CASC SUCTION BELL STUFF BOX	O psi	(OO) (Temperature) DOF. DEC. NO. DUCB UCB UCB	*F or Valve P	ressure Class	Rem RIS Iba RIS IS RIS HT	1885 1882 14430 1179 f
Told Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SCRICS CASC SUCTION BELL STUFF BOX	O psi	(OO) (Temperature) DOF. DEC. NO. DUCB UCB UCB	'F or Valve P	ressure Class	Rem. R/S 16.2 R/S 16.2 R/S 47	1885 1882 14430 1179 H
Cold Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SERIES CASC SUCTION BELL STUFF BOX	O psi	(OO) (Temperature) DOF. DEC. NO. DUCB UCB UCB	*F or Valve P	ressure Class	Rem RIS Iba RIS IS RIS HT	1885 1882 14430 1179 H
Told Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SCRICS CASC SUCTION BELL STUFF BOX	O pei	(PO) (Temperature) (OF) (Temperature) (OF) (OF) (OF) (OF) (OF) (OF) (OF) (OF	'F or Valve P	ressure Class	Rem RIS Iba RIS IS RIS HT	1885 1882 1430 1179 K
Told Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SCRICS CASC SUCTION BELL STUFF BOX	O psi	(OO) (Temperature) DOF. DEC. NO. DUCB UCB UCB	'F or Valve P	ressure Class	Rem RIS Iba RIS IS RIS HT	1885 1882 14430 1179 H
Told Working Pressure Pressure Retaining Pieces Mark No. 10 Castings TOP CASC SCRICS CASC SUCTION BELL STUFF BOX	O pei	(PO) (Temperature) (OF) (Temperature) (OF) (OF) (OF) (OF) (OF) (OF) (OF) (OF	'F or Valve P	ressure Class	Rem RIS Iba RIS IS RIS HT	1885 1882 1430 1179 K

⁽¹⁾ For manually operated valves only.

^{*} Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in litems 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.	Manufacturer	Remarks
c) Bolting			
STUDS	5A-193 GR-B7		RIS 115041
Hex.HK.CAP SCR.	5A-193 GR. BT	·	RIS 115037
Hex. NUT	SA-194 GR.7		R15 977.36
(d) Other Parts	•		
COL. FIANGE	5A-515 GR-70		RIS47948
ElBOW PIPE	SA-515 GR. 70		RIS 158389
THROTTIC SUPPORT			RIS 158690
SUPPORT PIPE	5A-106 GR. B		RIS 158885
UPPER FLANGE	SA-515 GR- 70		RIS 158641
Lawer Flange	SA-515 GR. 70		R15158641
COL-PIPE	SA-515 GR-70		RIS 158871
COL-PIPE	SA-515 GR-70		R15158870
COL. PIPE	SA-515 BR.70		RIS 158869

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. •	and the second of the second o	7 ^ ^		,
•	Lhadanaaala aasa	4 (//)	Olaf Differential and parents N / M	
ъ.	ITYOIOSUIUC USE		Disk Differential test pressure_NIA	
				•

	CERTIFICATE OF COMPLIANCE
0	We certify that the statements made in this report are correct and that this purip, or valve, conforms to the rules of construction of the ASME Code for Nuclear Power Plant Components. Section III. Div. 1. Edition 1971. Addenda WINTER 1972., Code Case No. N-146-1 Date 1 Oct 1982. Signed By Ron Jackson Pump DIV. by CW. HUMM!
	(N Certificate Holder) Our ASME Certificate of Authorization No

CERTIFICATION	OF DESIGN
Design information on file at BYRON JACKSON PUR	1P DIV-
Stress analysis report (Class 1 only) on file at	·
Design specifications certified by (1) _STEPHEN_A. S.	HUMAN
PE State & MASYNAMA Reg. No. PE = 30264 - E. Stress analysis contined by (1) N/A	ette ette verkingen til grade st
PE State AVA Reg. No. N/A	
(1) Signature not required. List name only.	

CERTIFICATE OF SHOP INSPECTION

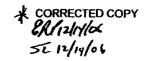
••	· · · · · · · · · · · · · · · · · · ·
and the State or Province of CALIFORN of WALTHAM MASS- OC+ 1 2 19 82	nission issued by the National Board of Boiler and Pressure Vessel Inspectors VIA and employed by ABO MFG_MUTUAL INSE CO2 have inspected the pump, or valve, described in this Data Report on and state that to the best of my knowledge and belief, the N Certificate Holder has con-
structed this pump, or valve, in accordance	e with the ASME Code, Section III.
the equipment described in this Data Remanner for any personal injury or propert	pector nor his employer makes any warranty, expressed or implied, concerning port. Furthermore, neither the inspector nor his employer shall be liable in any ly damage or a loss of any kind arising from or connected with this inspection.
on October 1 St us	/2

OA MOR-BY DATE OF AUTHORIZATION EXPIRES: 16 JUNE 1984

BY: COMMOR-BY DATE: 2

ANI: 10 PARTIES - N. COMMOR-BY DATE: 2

Inenecto



FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

nufactured for Flowserve Pu	ump Corp., 2300 East V	tume and address of RPT Cer fernon Avenue, Vernon, C	A 900580017	
		(name and address of purchason)		1.
cation of installation Unknown	<u> </u>	forme and address		
oe 313208, Rev. D	SA-515 70	70 ksi Min.	NA	2002
Of (drawing to.)	SA-515, 70 	(tenelle strength)	(CRN)	(gear built)
iME Code, Section III, Division 1:	1971	Winter 1972	3	NA
	(edition)	(addenda date)	(dess)	(Code Case no.)
bricated in accordance with Con-	st. Spec. (Div. 2 only)	NA Revision	NA NA	Date NA
		(uo1		
marks: Penn Iron Works,	inc. not responsible for	design		
				
0.200		1 following		A 4
rn. thickness (m.) 0.380"	Min. design thickness (in.)	Ottolowii Dia ID (ft a ft.)	Lengs	h overell (ft & in.) O-1
hen applicable, Certificate Holder		d for each item of this report:		44
in a second second	Attende of the second		1 30 B	
Part or Appartenance	National Board No.	Part or Appu	rtgagnec	National Board No.
Seriel Humber	in Numerical Order	Serial No	mber	in Numerical Order
•. •				
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(2)		(27)		
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^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

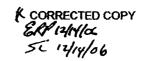
FORM N-2 (Back — Pg 2 of _____)

	Certificate Holder's	Serial Nos. 20-1	through 20-1
A.*	CERTIFICATION OF DE	BIGN	!
Design specifications certified by	NA beten epiticable)	P.E. State	IA Reg. no. NA
Design report* certified by	NA (when applicable)	P.E. State	IA Reg. no. NA
. ,	CENTIFICATE OF COMPL		52 1414/04
	e in this report are correct and that this (these) on of the ASME Code, Section III, Division 1.	* Middle Column 2	Rudwoc
NPT Certificate of Authorization No	N-2927	Expires August 28,	2002
Data 12/14/06 Name	Penn Iron Works, Inc.	Signed Early	felia
	CERTIFICATE OF INSPE	CTION	
	commission issued by the National Board of Bo	iller and Pressure Vessel	Inspectors and the State or Province
of HARTFURY CT.	have inspected these items described in this D ne Certificate Holder has fabricated these parts of near authorized for stamping on the date shows	occoe in accou	
By signing this certificate, neither th	e inspector nor his employer makes any warran alther the inspector nor his employer shall be lia	ty, expressed or implied,	
Date 12/14/06 Signed	Str. Lley (Authorized Pott) in Superchal)	Commissions NB (Inc. 84.6	9364 (N) PAZ372 and endormand and state or prov. and no.

 $(-1)^{2} H_{1}(x) = \frac{\pi g}{2\pi i \pi^{2}} \left(-\frac{\pi g}{2\pi i \pi^{2}} + \frac{\pi g}{2\pi i \pi^{2}} + \frac{\pi g}{2\pi i \pi^{2}} + \frac{\pi g}{2\pi i \pi^{2}} \right) \left(-\frac{\pi g}{2\pi i \pi^{2}} + \frac{\pi g}{2\pi i \pi^{2}} \right)$

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Pg. 1 of _2_

FORM N-2 CERTIFICATE HOLDERS" DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not to Exceed One Day's Production

nufactured for Flowserve Purn	p Corp., 2300 East Vern	on Avenue, Vernon, C	A 900580017	
		(name and addition of purchases	1	, , , , , , , , , , , , , , , , , , , ,
ation of Installation Unknown		(name and address)	entropy of the second	
	SA-515 70	70 ksi Min.	NA	2002
312363, Rev. G	(maril. spec. no.)	(tensile strength)	(CRN)	(year built)
ME Code, Section III, Division 1: _		finter 1972	3	NA NA
And the second second second	(e020e)		(class)	(Code Case no.)
ricated in accordance with Const.	Spec. (Div. 2 only)	NA Revision _	NA	DateNA
	` '	P10-4		
nerks: * Penn Iron Works, Inc	c. not responsible for des	(31)	1.5	
	ing and the set of the			A Section of
m. thickness (m.) 0.380" Mil	n deaters thickness (In). Uni	NOWN DIE ED MAIN	2' ten	
en applicable, Certificate Holders'				•
en appricante, ceruncam monara	Light Helicites and according that	and the sun schare		*
Part or Appurtenance	National Board No.	est del les room	urtenance	National Board No.
Seriel Number	In Numerical Order	Serial N	nuper	in Numerical Order
1) 30-1	411	(26)		
2)				·
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k 1/		(47)	3	
291		(48)		
72		1 [' '	- 1	
		{49}		

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each wheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg 2 of _____)

	Certificate Holder's	Serial Nos. 30-1		_ through 30-1	
4.0	CERTIFICATION OF DE	iign			
Design apacifications certified by	NA NA	P.E. State	NA	Reg. no	NA
Design reports certified by	faten epplicable) NA Fulten epplicable)	P.E. State	NA_	Reg. no	NA
We certify that the statements made	CERTIFICATE OF COMPU	ANCE E 12/19	10 G 14/cb nn		
	of the ASME Code, Section III, Division 1.				
NPT Certificate of Authorization No.	N-2927	Expires August	28, 2002	7	
Dots 12/14/06 Name	Penn Iron Works, Inc.	_ Signed Edis	erfe	Second expressionsatives	
i i	CERTIFICATE OF INSPE	TION			
of HANT FORD CT. best of my knowledge and belief, the	ommission issued by the National Board of Go i by	ata Report on8`	-22-0	Z and sta	te thet to the
By signing this certificate, neither the	sen authorized for stamping on the date showr sinspector nor his employer makes any warran ther the inspector nor his employer shell be list onnected with this inspection.	ty, expressed or impl			
Date 12/14/06 Signed -	SCHR. July (Authorized plugher bispoterty)	Commissions A	3 936 Bd. (leed. end	Y (N) PA	2372

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* CORRECTED COPY

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SE 14/14/06

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES* As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pg. 1 of _2 1. Manufactured and certified by Penn Iron Works, Inc. 700 Old Fritztown Road, Sinking Spring, PA 19608 frame and address of NPT Certific 2. Manufactured for Flowserve Pump Corp., 2300 East Vernon Avenue, Vernon, CA 900580017 3. Location of Installation Unknown forms and address) 4. Type 313207, Rev. C 70 ksi Min. NA SA-515, 70 2002 (CRN) (drewing no.) fmat'i, spec. so.) (tensile strength) Winter 1972 1971 3 NA. 5. ASME Code, Section III, Division 1: (class) (Code Cape no.) NA NA NA 6. Fabricated in accordance with Const. Spec. (Div. 2 only) Revision Date 7. Remarks: *Penn Iron Works, Inc. not responsible for design 8. Norm. thickness (in.) 0.380" Min. design thickness (in.) Unknown Dia. ID (it & in.) Length overall (ft & In.) 6'-11" 9. When applicable, Certificate Holders' Data Reports are attached for each item of this report: National National t or Appurtana Serial Number Serial Number 407 10-1 11) (26)10.2 408 (27) (2) 10-3 409 (28) (3) 410 10-4 (29) (5) (201 (6) (31) (32) (7) (33) (8) (9) (34) 1343 (10) (36) (11) (12) (37)(13)(38)(14) (39) (15)Lan (41) [16] (17) (42) (18) (43) (10) (44) (45) (20)(48) (21)

10. Design pressure Unknown psi. Temp. Unknown °F. Hydro. test pressure 232 psi st temp. •

(47)

(48)

(49)

(50)

(22)

(23) (24)

(25)

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each gheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back — Pg 2 of ____)

	Certificate Holde	rs Serial Nos.	through
4.0	CERTIFICATION OF D	ESIGN	
Design specifications certified by	NA jeriwa applicatrie) NA (vrina applicatrie)	P.E. State NA P.E. State NA	Reg. no. NA NA NA
We certify that the statements made in this conforms to the rules of construction of the	•	* Columns Polist	fi4/06 4/ &
MPT Certificate of Authorization No. N-2	927	Expires August 28, 200	2
Dets 12/14/06 Name	Penn Iron Works, Inc.	Signed Early	hiterat selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and the selected transfer and t
I, the undersigned, holding a velid commi	CERTIFICATE OF INSP		stars and the State on Dury James
of and employed by of have i best of my knowledge and belief, the Cent III, Division 1. Each part listed has been as By signing this certificate, neither the inspirent in this Data Report. Furthermore, neither the or loss of any kind arising from or connect	IFSB CT Inspected these items described in this incare reciner has tabificated these participated for stamping on the date sho actor nor his employer makes any wenter inspector nor his employer shall be inspector nor his employer shall be	Data Report on	O Z, and state that to the with the ASME Code, Section arming the equipment described

Form No.	1841	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

Owner	F.E.N.O.C		. Date	<u> </u>	10/19/	06	
76 South I	Main Street - Akr (ADDRESS)	on, OH 44308	She	et <u>1</u>	of _	2	- · · · · · · · · · · · · · · · · · · ·
Plant	Beaver Valley F	Power Station (BV	PS) Unit	No	2		
	Shippingport, P	A 15077		20 Repair/Replacement 0	0013680		kc.
Work Perfo	,	OC Maintenance	Туре	e Code Symbol		N/A	
	Shippingport, P	. ,	Auth	orization No		N/A	
	(ADDRESS)		Ехрі	ration Date _		u	
Identification	on of System	Primary Compo	nent Cooling ((Class 2)			
Name of	on of Component	Manufacturer	National Board	Other	Year	Corrected, Removed. or	ASMI Code Stamps
Expansion Joint	Pathway Bellows Inc	Scrial No. D-5-3213-N2- 1132	No.	2CCP- EJM214B	1978	Corrected	Yes
	1	September 1	Walter and the second	+ 1,800 ×	<u> </u>		
id istra ones	1						

	ı of Work <u>Rev</u>	velded clip to flanc					
	n of Work <u>Rev</u>						

*Record test pressure and temperature

FORM NIS-2 (Back)

Previous NIS-2 Data Report Nos: 72, 76, and 939. Manufacturer's Data Report Attached Applicable Manufacturer's Data Reports to be attached
· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI.
/pe Code Symbol Stamp N/A
ertificate of Authorization_No. N/A Expiration DateN/A
gned Sevier Specialist Date October 25 , 20 06
CERTIFICATE OF INSERVICE INSPECTION
SERVINORIE OF INSERVINE MOI ESTIGN
, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{10-27-06}{}$, and state that to the
pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Dean J. Mych Commissions I, N, PA2384
Inspector's Signature National Board, State, Province, and Endorsements
Date

FORW HER NET CERTIFICATE HOLDERS! DATA REPORT FOR NUCLEAR PART AND APPURTBHANCES!	
As required by the Provisions of the ASME Code Rules, Sect. 111, Div. 1	
(a) Manufactured by Pethway Bellows Inc., P.O. Box 1526, El Cajon, California 92022 (Name and extress of Manufacturer of part)	==
(b) Manufactured for Duquesne Light Co., Stone & Webster Engr. CorpAgent, P.O. Box 186	
(Name and address of Manufacturer of completed nuclear component) Shippingport, I Identification-Manufacturer's Serial No. of Part D-5-3213-N2-1132 Nat'l Bd. No.	- PA 1
Identification-Manufacturer's Serial No. of Part U-5-3215-N2-1132 Nat'l Bd. No.	
(a) Constructed According to Drawing No. D-5-3213 Rev. B Drawing Prepared by Pathway Bellows Inc.	
(b) Description of Part Inspected 12th Expansion Joint Winter	
(c) Applicable ASNE Code: Section III, Edition 1974, Addenda date 1975, Case No Class 3	.
Remarks: PIPING EXPANSION JOINT FOR PRIMARY COOLING WATER PURPS FOR DUQUESNE	
(Brief description of service for which component was designed) LIGHT CO., BEAVER VALLEY POWER STATION NO. 2.	-
TAG NO. 2 CCP-EJN-214 B DUQUESNE LIGHT CO. BEAVER VALLEY UNIT #2 28V-240	-
Re certify that the statements made in this report QUIPMENT DESCRIPTION 12" EXP. JOINT in the Code construction of the ASNE Code MARK \$2009-EJM-214 13 e applicable Design Specification and Stress PATHWAY BELLOWS INC. EL CAJON, CALIF. Is not included the component Design Specification and Stress Report.	
December 23 19 78 Signed Pathway Bellows Inc. By Wil Four	-:
reificate of Authorization Expires August 19, 1980 Certificate of Authorization No. N-1835	-
CERTIFICATION OF DESIGN FOR APPURTENANCE (when applicable)]
Design information on file at Pathway Bellows Inc., P.O. Box 1526, El Cajon, Ca. 92022	1
Stress analysis report on file at	
Design specifications certified by R.E. Tschirch Prof. Eng. State MA Reg. No. 27326	
Scress analysis report certified by Prof. Eng. Scate Reg. No	
CERTIFICATE OF SUOP INSPECTION	
the state of the s	
1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of California and employed by Royal Indemnity Co.	
of New York, N.Y. have inspected the part of a pressure vessel described in this	Ì.
December 25. 19 18 and state that to the best of my knowledge and belief, the Manufacturer has constructed this part in accordance with the ASME Code Section III. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturer's Partial Data Report. Furthermore, neither the inspector nor his employer that be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
December 23 19 78 PA WC 2372	
inepecter's Signature Commissions National Board, State, Province and No.	i
	!

posperental sheets in form of lists, exetches or drawings may be used provided (1) afact is 89% a 11% (2) information in frame before his data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remail 1% for the data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remail 1% for the data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remail 1% for the data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remail 1% for the data report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded in item 3, "Remail 1% for the data report is not sheet in the content of the content is not sheet in the content is not sheet



MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET

(a) Manufactured by Pathway Bo	llows, Inc. P.O.Box	1526. El Cajon, Califor	nia 92022		
(Name and a	cotess of Manufatures	of put)			
b) Manufactured for <u>Ducuesn</u>	e Licht Co.	Stone & Webster	Enar. Corp	Agent, P.O. 8	ox 186
Water and a	diress of Manufacture	r of vessel)		Shipping	port, PA 15077
D-5-3213-N2-1132		D-5-3213	Rev. A		1975
0-5-32 5-32- 1 5-2 MFG's Serial No. of Part	(CRN)	(D*£)			(Yex Built)
hell: Bellows Natural S1240	w704 - 4	• • • •	a This C24	Dia 13.7	50 LGTH. 7_000_
	. 13. مسئلاتنا - 13. مستند		•	DIA 12.0	· · · · · · · · · · · · · · · · · · ·
Flonge Material SAIDS	T3		n. Tak.		
	T\$			DIA	
		No.			LGTH.
Material	·	No:			LGTH
Material		Hor		DIA	LGTH
	72		n. Thk		LGTH.
Kattin -					
			•		
2 Ply					
Bellows Long B/W	н.т	<u>N/A</u> x.s	NONE	Sect'd	en70%
Lost	н.т.	X.i	·	Sect'd	Eff
Long	y.T.	X.1	<u> </u>	Sect d	En
Sone -	н.т.	×.ı	L	Sect'd	51%
Lors	н.т.	X.I	L	Sect'd	
Long	R.T		L	Sect'd	En
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But 6	FUIET or	N/A X	R N/A	Sect'd	
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Remarks: UNIT HYDROSTATIO	ONLY TESTER	e 270 DOLG AT AM	RIENT TEMPS	RATURE	
Remarks: CNIT HYURUS IAIT	LALLI TESTED	E 230 F310 AT W	STEIL TEIL		
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- AFERSINE ISSUED					
TAG NO. 2 CCP-E	JV-214 5				
	रिकामक मित्रुक (क्षेत्र निष्क्षः) इ.स.च्या	50 to 6 cm.			
		THE PART OF			
	0	UQUESNE LIGHT CO	5 <i>E7</i>	- (= 2	
	- B	EAVER VALLEY UNI BV-240			
	FF 4	QUIPMENT DESCRIP	TION 12"	EXP. JOINT	
		ARK #2CCP-EJM-21	4 B		
		ATHWAY BELLOWS I	NC. EL C	AJON, CALIF.	- व व व ल ल स्थ
: `	r	Militaria Managana		•	DECEMBED.

					JAN 21979
					· water
					Englishing Corporation
			• •	•	Eligit Stilling will portion

Form No.	1901 Rev 1	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY AS Required by the Provisions of the ASME Code Section XI

. Owner	F.E.N.O.C		Date	e	10/30	/2006	
76 South M	1ain Street Akro	on, OH 44308	_ She	et1	of		2
. Plant	Beaver Valley P	ower Station (BV	<u>(PS)</u> Unit	No		2	
	Shippingport, PA	A 15077		Work (00086279 n P.O. No., Job N	o., etc.
Work Perfor	rmed By <u>BVPS</u>	-Valve Team (NAME)	Тур	e Code Symbo	l Stamp	1	√A
	Shippingport, PA	\ 15077	Auti	horization No.		N/A	
	(ADDRESS)		Exp	iration Date		4	
Identification	n of System	Chemical and \	olume Control	(Class 2)			
(b) Applicable	Construction Code e Edition of Section X e Section XI Code Ca n of Components	(I Utilized for Repair/ ase(s): <u>N/A</u>			nda,	N/A Code (Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buih	Corrected. Removed. or Installed	ASME Code Stamped (Yes or No
Check Valve	Westinghouse	03000CS8200000 002W720162	W121096	2CHS-12	1977	Corrected	Yes
Nuts	NOVA Machine	N/A	N/A	J454	2003	Installed	No
				·			
Description	of Work Repl	aced the body to	bonnet nuts.				
. Tests Cond	ucted: Hydros Other {	_	matic* No	minal Operatin Test Temp	_		empt 🛭

FORM NIS-2 (Back)

. Remarks <u>Manufacturers Data Report attached. 5/8"-11 Nuts: P.</u> Applicable Manufacturer's Data Reports to be att	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this corode, Section XI.	forms to the requirements of the ASME
pe Code Symbol Stamp N/A	
ertificate of Authorization No. N/A Expiration Date	N/A
gned Senior Specialist Owner or Owner's Designee, Title	Date <u>January 31</u> , 20 <u>06</u>
CERTIFICATE OF INSERVICE INSPECTION	ON .
the undersigned, holding a valid commission issued by the National Board of Boiler	and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT	·
Hartford, CT have inspected the components de	
Owner's Report during the period $\underline{4-\lambda7-05}$ to $\underline{11}$	$-(1-0)^{6}$, and state that to the
est of my knowledge and belief, the Owner has performed examinations and taken of	orrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the inspector nor his employer makes any warranty,	expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermor	
hall be liable in any manner for any personal injury or property damage or a loss of a	•
his inspection.	
Dea 1 211 1	YARANIB PAL384
	al Board, State, Province, and Endorsements
,	
Date	

FORM NOW MANUFACTURERS UNIT HE PORT FOR ALL COLUMN TO UPS ON A STAFF

to Required by the l'encourant the ANI Logic lines.

blesselsetered be	Westinghouse Elec Cheswick Avenue.	ctro-Mechanical W Cheswick, PA, 15	Utvision 5024	1H014 PG(N)38562-AR6-
•	PAR Systems Divis			546-000-162145-
Manufactured for .	Duquesne Light Co	(Nepo and Address)		
Osan	and the same of th		lev 2	
Location of Plant		ght - Beaver Vall		
Pump or Volve Ide		\$8200000002472016 1.D. 3C7Z ing Check Valve		
		ion of service for which equ	water was designed.	
	5059041	.1 <	. Zelenak	
for Drowing Nu	W12096	Prepared by		
(b) Naumal Boom				
. Design Conditions	200	P** 25(0^+	
. The material desi-	igr. construction, and works			1
107			(\. <u>1553-1</u> , 16	
Edin =	Address Date	PA F &	(ate \s [233-1], 10	
	Mark Ro.	Material Spec Ha.	Nanderium	g.com/r.
(a) Candings.		7		
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(a) Castlege		7		
(a) Castings.		Marror at Spec Me.	Menidenturri	Boars
(a) Costogo · ·		Barrertel Spec Me. SA 182 GR F316	Newdorrum Sel. Imp. Sfrg. Co.	Ht. No. 72391-K
(b) Fergers	5/N 4232	Marror at Spec Me.	Stl. Imp. Afrc. Co. Sandweyer Stl. Co	Ht. No. 72391-K
(a) Casego	\$7/N \$2-92 \$7/N \$2-92 \$7/N \$2-92	SA 182 GR F316 SA 240 GR F316	Stl. lap. Afrc. Co. Sandweyer Stl. Co	Ht. No. 72391-K
(b) Forces Body Bonnet	\$7/N \$2-92 \$7/N \$2-92 \$7/N \$2-92	SA 182 GR F316 SA 240 GR F316	Stl. lap. Afrc. Co. Sandweyer Stl. Co	Ht. No. 72391-K

(over)

VDP-PAGE 5 CF 26

[&]quot;Bapplemental Charter in down of Bate; pirather or discount may be used provided (1) size in 154" o 11", (2) information to through 1, 2, in and 30 on this drawn and the second of the

Earm	NIA	1904
Form	NO.	1904

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY " As Required by the Provisions of the ASME Code Section XI

1.	Owner	F.E.N.O.C	-	_ Date	e	10/1	8/06	
	76 South M	ain Street - Akro	on, OH 44308	_ She	et <u>1</u>	of	<u>+ 2</u>	<u> </u>
2.	Plant	Beaver Valley Po	ower Station (BV	<u>/PS)</u> Unit	No	2	2	
		Shippingport, PA	15077		2 Repair/Replacement	001688		o etc
_				_		٠, .		
3.	Work Pertor	med By <u>FENO</u>	C Maintenance (NAME)	Тур	e Code Symbol	Stamp		<u>I/A</u>
		Shippingport, PA	15077	Auti	norization No		N/A	
		,		Ехр	iration Date _			
4.	Identification	n of System	Containment D	<u>epressurization</u>	System (Class	2)		
5.	(a) Applicable	Construction Code	ASME Section III	1971 Edition.	W72 Addenda NA		Code Case	!
	* * * * * * * * * * * * * * * * * * * *	Edition of Section X					_	
	(c) Applicable	Section XI Code Ca	ise(s): N/A					
6.	Identification	n of Components	;					
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buik	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
	Valve -	Walworth Co.	A1106	1244	2QSS-2	1980	Corrected	Yes
	and the state of t				vision in the second se			
			·			-		
7.	Description	of Work <u>Sea</u>	l Welded the Val	lve Stem Leako	ff Plug			
8.	Tests Cond	ucted: Hydros Other			minal Operating Test Temp.			empt [

*Record test pressure and temperature

FORM NIS-2 (Back)

9. Remarks No Previous NIS-2 Code Data Report. Manufacturer's Data Report attached. Applicable Manufacturer's Data Reports to be attached
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the A Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Albite Swior Specialist Date October 28, 20 6
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{11-1-06}{}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employed
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Dem S Price Commissions <u>AB9428 ANTB PA2384</u> Inspector's Signature National Board, State, Province, and Endorsements
Inspector's Signature National Board, State, Province, and Endorsements
Date 1/-/ 20 06

2. Hamunictured 2. Location of in		ene Light	Company.	station, U	one & Web nit 2	ster, Bost	on,
Lacemen er in Lacemen er Vel	_ 12". 112	26 UGOSP	Nominal		1 7 *	tlet Size	12*
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B. Doolgn Candl	tonsI	<u>^</u>	N/A	T or Valve	Pressure Class	150#	
			N/A Removatorel	T or Value	Pressure Class	150#	_
	Pressure		N/A Removatorel	T or Velve	Pressure Class	150#	
7. Cold Werting B. Pressure Rets	Pressure Ining Pieces	275	N/A (Tomposmore)			150#	
7. Cold Werting B. Pressure Rets	Pressure		N/A (Tomposmore)	T or Velve		Remarks	
7. Cold Worlding B. Pressure Rists Mo	Pressure Ining Rices de No.	275	N/A (Temperatural 1007.				
7. Cold Worting B. Frankure Reta Min (4) Costings	Pressure Ining Pioces de No.	A pai	M/A (Temperatural 1007.	Manufa	churer	Remarks Reat #	
7. Cold Worlding B. Pressure Rists Mo	Pressure Inling Pieces rk Me.	A pai	N/A (Tompo more) 1007. Spec. Na.		curer /Aloyco	Remarks	
7. Cold Werting B. Pressure Rets Mo (a) Castings BOCV	Pressure Inling Places rk No.	Manufal SA-351, C	N/A (Tomposaru) 1007. Spec. No. 128	Manufa Walvorth	Aloyco /Aloyco	Remerks Reat #	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Inling Places rk No.	A pai	N/A (Tomposaru) 1007. Spec. No. 128	Manufa Walworth Walworth	Aloyco /Aloyco	Remerks Heat # 5237D 6889D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Ining Rices de No.	A poi	Spec Na. P8 P8	Walworth Walworth Walworth	/Aloyco /Aloyco /Aloyco	Remerks Heat # 5237D 6889D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Inling Places rk No.	A pai	Spec Na. P8 P8	Walworth Walworth Walworth	Aloyco /Aloyco	Remerks Heat # 5237D 6889D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Ining Rices de No.	A poi	Spec Na. P8 P8	Walworth Walworth Walworth	/Aloyco /Aloyco /Aloyco	Remerks Heat # 5237D 6889D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Ining Rices de No.	A poi	Spec Na. P8 P8	Walworth Walworth Walworth	/Aloyco /Aloyco /Aloyco	Remerks Heat # 5237D 6889D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Ining Rices de No.	275 per second s	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Aemerts Heat # 5237D 6889D 4840D	
7. Cold Werting 8. Pressure Rate Mo (4) Castings BOOV Bonne	Pressure Ining Rices de No.	275 per 2 275 per 2 34-351, C 5A-351, C 5A-351, C	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Rent # 5237D 6889D 4840D	
7. Cold Working 8. Pressure Retained Mo (a) Contings Body Bonne Disc	Pressure Ining Rices de No.	275 per 2 275 per 2 34-351, C 5A-351, C 5A-351, C	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Rent # 5237D 6889D 4840D	
7. Cold Working 8. Pressure Retained Mo (a) Contings Body Bonne Disc	Pressure Ining Picces rk No.	Montel SA-351, C SA-351, C	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Rent # 5237D 6889D 4840D	
7. Cold Working 8. Pressure Retained Mo (a) Contings Body Bonne Disc	Pressure Ining Rices de No.	275 per 2 275 per 2 34-351, C 5A-351, C 5A-351, C	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Rent # 5237D 6889D 4840D	
7. Cold Working 8. Pressure Retained Mo (a) Contings Body Bonne Disc	Pressure Ining Picces rk No.	Montel SA-351, C SA-351, C	Spec. No. 10078. Spec. No. P8 P8	Manufa Walworth Walworth	/Aloyco /Aloyco /Aloyco	Rent # 5237D 6889D 4840D	E

ישוא הבדיטהו רשה הטטבבהה רטוורס כה עובעבה.

⁽¹⁾ For menually operated values only

^{*} Same in the second form of lists, statches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in Rems 1, 2 and 5 on this Date Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

Studs SA-193, GrB8 B & G 864 Ruts SA-194, Gr 8 B & G A93		rk Na.	Material Spec. No.	Menufacturer	Rem
Stude SA-193, GEBB B & G 864 Ruts SA-194, GE B B & G A93 Pipe Pluq SA-182, TPF 304 A B, Murray/ MU Camco CENTIFICATE OF COMPLIANCE We carefy that the electronics made in this report are correct and that this pump, or valve, conforms to construction of the ASAME Code to the Interest of Company Aloyco Plant by Camco Details Code Case No. 1672 Date Section 1972. Code Ca			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		- WEBS
Ruts SA-194, Gr. 8. B & G A93 Company Pipe Plug SA-182, TPF 304 A.B. Murray MO Camco	10 <u>22.7</u>				
SA-194, Gr. 8	Studs			B & G	8644
Id) Other Parts Pipe Plug SA-182, TPF 304 A.B. Murray/ MU Camco Camco Camco Camco Centificate one 425 pd. Disk Officered on pressure 275 pd. Centificate one 425 pd. Disk Officered on pressure 275 pd. Centificate of Compliance We consty that the statements made in this report are correct and that this pump, or valve, conforms to conservation of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition 1 Addends Winter 1972, Code Case No. 1672 Deta: 20, 482 Signed Walworth Company/Aloyco Plant by Company/Aloyco Plant Company/Aloyco Plant Truppy Manager Our Asial Cartificate of Authorization No. 18-2076 to use the grant of the provided expires of Centificate of Authorization No. 18-2076 to use the grant of the provided expires of Authorization on the st. Walworth Company/Aloyco Plant Stress analysis report (Class 1 only) on the st. Not required Party A. Gopalani Party Research Company/Aloyco Plant Not required Research				5	3.032
Pipe Plug — SA-182. TPF 304 — A.B. Murray/ MD — Cameo — CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valve, conforms to conscruction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition — Addends — Winter 1972. Code Case No. — 1672 — Determined Series — Components — Design Walworth Company/Aloyco Plant by — Frank Trupps/ Manager (Our ASME Confices of Authorization No. — N-2076 — to use the — symbol expires — components on file at — Walworth Company/Aloyco Plant Stress enables report (Class I only) on file at — Not required Design specifications cartified by (II) — Faruk A. Gopalani PE Sees — PA — Nig. No. — 21966—E Store — Not required Reg. No. — Reg. No.	MUES			. B & G	A936
Pipe Plug SA-182, TPF 304 A.B. Murray/ MU Camco Camco Centrocate use 425 psl. Old Officended uset presure 275 psl. CENTROCATE OF COMPLIANCE We carrify that the statements made in this report are correct and that this pump, or valve, conforms to construction of the ASME Code for Nuclear Power Plant Components. Section N. Div. L. Edition 1 Addends Winter 1972, Code Case No. 1672 Date 10. ABME Signed Walworth Company/Aloyco Plant by Frank Trupps Manager Our ASME Confices of Authorisation No. 18-2076 to use the No. 18-2076 ps. Section on file at Malworth Company/Aloyco Plant CENTERCATION OF DEFICE CENTERCATION OF DEFICE CENTERCATION OF DEFICE Design specifications cartified by (1) Faruk A. Gopalani PE Suss PA Rig No. 21966-E Source analysis cardidal by (1) Not required Rig No. 1966-E					
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Centractic use 425 psi. Diet Officential use presure 275 psi. CENTRICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valva, conforms to construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. I., Edition 1 Addends Winter 1972, Code Case No. 1672 Date 100 2011 Signed Walvorth Company/Aloyco Plant by Frank Truppe Manager Our ASME Certificate of Authorisation No. N-2076 to use the Research of Authorisation No. N-2076 to use the Research of Authorisation No. No. No. No. No. No. No. No. No. No.	· \ -		A Company of the Comp		M
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CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valve, conforms to construction of the ASME Code for Nuclear Power Plant Components. Section M. Div. L. Edition Addends Winter 1972. Code Case No. 1672 Date Pro-20, 1984 Signed Walworth Company/Aloyco Plant by July Manager Our ASME Cortificate maters Our ASME Conficate of Authorization No. 18-2076 to use the No. 1997 CERTIFICATION OF DESIGN Design information on file at Walworth Company/Aloyco Plant Stress analysis report (Class 1 only) on file at Not recruired Design specifications cartified by (1) Faruk A. Gopalani PE State Reg. No. 21966-E Stress analysis cartified by (1) Not recruired			- AND PARTY OF THE PROPERTY OF	Camco	
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CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valve, conforms to construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition Addends Winter 1972, Code Case No. 1672 Date Pro-20, 1984 Bend Walworth Company/Aloyco Plant by John Truppe Manager Our ASME Confices of Authorization No. N-2076 to use the Symbol expires of Central Case of Authorization No. N-2076 to use the Symbol expires on the Street analysis report (Clear 1 only) on the at Not recruired Design specifications certified by (1) Faruk A. Gopalani PE State PA. Rig No. 21966-E. Street analysis carofied by (1) Not recruired Rig. No. Rig. Rig. No. Rig. Rig. No. Rig. Rig. No. Rig. Rig. Rig.		<u> </u>	Can have a second secon		
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CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that this pump, or valve, conforms to construction of the ASME Code for Nuclear Power Plant Components. Section III, Div. L. Edition					
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L the undersigned, holding a velid commission issued by the National Board of Boiler and Pressure Vest and the State or Province of New Jersey and employed by HSBI&I CO. of Hartford Conn. have inspected the pump, or valve, described in this Date of the pump.	We confly the construction of Addenda! Signed Wall. Design inform Street analysis Design specified States (1) Signeture of Hart	the statem the ASME Inter Corth Cort	CERTIFICATE OF CO ents made in this report are correct a Code for Nuclear Power Plant Compile 12.2. Code Case No	MPLIANCE and the: this pump, or valve conents. Section III, Div. L. E 672 Dete Frank Frank Truppy M set the Name of Section OVCO Plant ired Gopalani ired INSPECTION stionel Board of Boiler and and employed by HS pump, or valve, describe	Pressure Vess BIGI Co. d in this Date
L the undersigned, holding a velid commission issued by the National Board of Boiler and Pressure Vest and the State or Province of New Jersey and employed by HSBI&I Co.	We confly the construction of Addenda! Signed Wall. Our Askit Con Design inform Street analysis PE State! Street and the State of Hari-	the statem the ASME Inter Corth Cort	CERTIFICATE OF CO ents made in this report are correct a Code for Nuclear Power Plant Complete. Code for Nuclear Power Plant Complete. Company/Aloyco Plant Instant CERTIFICATION OF Malworth Company/Al Et I only on file at Not rectal Ind by (1) Faruk A. Reg. No Flore CERTIFICATE OF SHOR Reg. No Flore CERTIFICATE OF SHOR Is a valid commission issued by the Not respected the Is allow Jersey Conn have inspected the Is allow, and state that to the best of To, in accordance with the ASME Code.	INSPECTION Stionel Board of Boiler and and employed by pump, or valve, describe my knowledge and belief, the Section III.	Pressure Vesse BI&I Co. d in this Det

(Net's Bd., State Prov. and No.)

					For	m No.		1914
F:	ORM NIS-2 OWI As Requir	NER'S REPORT ed by the Provi					TVITY	
1. Owner	F.E.N.O.C		· .	Date		11/1	1/06	
76 South M	lain Street – Akro (ADDRESS)	on, OH 44308	_	Shee	et1_	of		3
2. Plant	Beaver Valley P	ower Station (B\	/PS)	Unit	No		2	
- ·	Shippingport, P/	A 15077			Work Order No Repair/Replacement			
3. Work Perfor	rmed By <u>BVPS-M</u>	laintenance & Construc (NAME)	tion Services	Туре	e Code Symbol	Stamp		N/A
	Shippingport, PA	A 15077	•		orization No		,	
				Expi	ration Date			
4. Identification	n of System _	Chemical and	Volume Co	ntrol ((Class 2)			
	Construction Code			-		i,	N/A Code C	Case
	e Edition of Section) e Section XI Code Ca	•	/Replacemen	t Activit	y <u>1989</u>			
	n of Components	;						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Bo No.	ard	Other Identification	Year Built	Corrected. Removed, or Installed	ASME Code Stamped (Yes or No)
Pump	Pacific Pump	49190-R	690		2CHS-P21A	1982	Corrected	Yes
Discharge Head	Flowserve Corp.	RWNA04846	N/A		Head, bypass pipe and flange	2006	Installed	Yes
Seal Housing	Flowserve Corp.	*RESA03095	N/A		N/A	2002	Installed	Yes
Seal Housing	Flowserve Corp.		N/A		N/A	2001	Installed	No
7. Description		laced pump disc						usings,

8. Tests Conducted: Hydrostatic[⋆] □ Pneumatic[⋆] □ Nominal Operating Pressure ⊠ Exempt □

Other Pressure psi

Test Temp. _____ °F

*Record test pressure and temperature

FORM NIS-2 (Back)

Applicable Manufacturer's Data Reports 11 Class 1 as follows: Applicable Manufacturer's Data Reports to be attached 1967E-S'72A. All bolting was supplied by Nova Machine to ASME Sect. III Class 1 as follows:
3/4" Nuts: P.O. 47035358 / Ht. #K456. Lot # of second seal housing was not recorded. Two were
supplied on P.O. 7046265: RLSA01241 and RLSA00943.
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME code, Section XI.
ype Code Symbol Stamp N/A
ertificate of Authorization No. N/A Expiration Date N/A
igned Senior Specialist Date January 12 , 20 07 Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSBCT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{1}{-1/-06}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
uns mispection.
Dean J. Najnil Commissions JB9428 ANTB PA 2384 Inspector's Signature National Board, State, Province, and Endorsements
wadding board, citale, i formed, and Endotsellens

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III

Not to Exceed One Day's Production

Flowserve Pump Div, Nuclear Products Operations 2300 E. Vernon Ave., Vernon, CA 90058 1. Manufactured and certified by (name and address of NPT Certificate Holder) First Energy Corp., 76 South Main Street, Akron, OH 44308 2. Manufactured for _ (name and address of purchaser) Beaver Valley Storeroom, Pennsylvania Power Co. Route 168, On-Site Storeroom, Shippingport, PA 15077 3. Location of installation (name and address) SA-182 F304 75,000 PSI N/A D73894 Rev. 3 (mattl. spec. no.) (tensile strength) 1971 Summer 1972 2 N/A 5. ASME Code, Section III, Division 1: (addenda data) Code Case no. N/A 6. Fabricated in accordance with Const. Spec. (Div. 2 only) Nomenclature: Discharge Head Flowserve Job No.: RLCA03622 Consisting of: Head, Mat'l type: SA-182 F304, Bypass Pipe, Mat' type: SA-312 GR. 304L And Bypass Flange, Mat'l type: SA-182 F304 4.500 Dia. ID (ft & in.) 1' 10" Length overall (ft & in.) 0'9.375" 8. Nom. thickness (in.) 4.625 Min. design thickness (in.) 9. When applicable, Certificate Holders' Data Reports are attached for each item of this report: National National Part or Appurtenance Board No. Part or Appurtenance Board No. in Numerical Order Serial Number in Numerical Order Serial Number **RWNA04846** N/A (1) (27) (2) (28)(3) (5) (31)(9) (10) (35)(11). (36)(37) (12). (13) (38) _ (39) _ (41) _____ (19) (20)(22) (47)(48) (23)(49)

* Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

300

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

2800

E00040

Disch. Side 4960-5260 Suct. Side 375-400/77

°F. Hydro, test pressure ...

FORM N-2 (Back — Pg 2 of _____)

3.	Certificate Hol	der's Serial Nos	A04846 RY through	WNA04846
	CERTIFICATION OF	DESIGN		
Design specifications certified by	Albert John Wettlaufer	P.E. State	PA Reg. no.	13335-Е
Design report* certified by	John R. Lightle	P.E. State	N/A Reg. no.	N/A
	(when applicable)			
	CERTIFICATE OF CO	MPLIANCE		
· .4	in this report are correct and that this (the of the ASME Code, Section III, Division 1		Head	
NPT Certificate of Authorization No.	N-1131	Expires	une 10, 2008	
Date Name	Flowserve Pump Div., Nuclear Products Ope (NPT Certificate Holder)	Signed	(abutnorped representative	dq
	CERTIFICATE OF IN	SPECTION		
I, the undersigned, holding a valid co	mmission issued by the National Board of	f Boiler and Pressure Vess	el Inspectors and the St	tate or Provinc
Un-thou CT	ave inspected these items described in thi	is Data Report on6	/23/06 and :	state that to the
	Certificate Holder has fabricated these par		cordance with the ASMI	E Code; Section
•	en authorized for stamping on the date sh inspector nor his employer makes any war		d, concerning the equip	ment described
in this Data Report. Furthermore, neith	her the inspector nor his employer shall be			
or loss of any kind arising from or co	nnected with this inspection.			
Date Signed	(Authorize) Nuclear Inspection	Commissions	CA-19 d. (incl. endorsements) and stat	

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME-Code, Section III

Not to Exceed One Day's Production

Pg. 1 of ___2

indiactored and certified by	The state of the s	Iname and address of NPT	Certificate Holderl	ERNON AVE., VERNON, CA
nufactured for FIRST ENERG	y, beaver valley, sh	IPPINGPORT, PA 1507		
cation of installation FIRST F	NERGY REAVER VALLEY			
ration of instantation	Address Automat	(name and address		
pe: D17368-00-00-0SP-SP AS	ME SA-182 GR. F-304	75,000	N/A	2002
(drawing no.)	(mat'l, spec. no.)	(tensile strength)	(CRN)	(year built)
ME Code, Section III, Division 1:	1971	SUMMER 1972	2 (class)	N/A (Code Case no.)
pricated in accordance with Cons	t. Spec. (Div. 2 only)	N/A Revision	N/A	Date N/A
ALUMCHBAR 108 NO.	.: RLCA00919 NOMEN	CLATURE: SEAL HOUSI	NG MAT'L T	YPE: ASME SA-182 GR. F
			<u> </u>	
			•	
	- 			
m. thickness (in.) 1.062 M	in. design thickness (in.) _	1.000 Dia. ID (ft & in.)	0 3.0 Leng	th overall (ft & in.) 0° 2.98
nen applicable, Certificate Holder	s' Data Reports are attache	ed for each item of this rep	ort:	
				
1			ŕ	
Part or Appurtenance	National	Part or Ap	purtenance	National
Serial Number	Board No.	Serial	Number	Board No.
	in Numerical Order		į	in Numerical Order
	•			•
1) RLSA03094		(26)	1	
2) RLSA03095		(27)		
3) RLSA03091	<u> </u>	(28)		
4) RLSA03093	<u> </u>	(29)		
		(30)		·
(5)		(30)		
(6)		(31)		
(5)	,	(31)		
(5) (6) (7)		(31)	·	
(5)		(31) (32) (33) (34)		
(5)		(31) (32) (33) (34) (35)		
(5)		(31)		
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5)		(31) (32) (33) (34) (35) (36) (37) (38)		
(5) (6) (7) (8) (9) (0) (1) (2) (3) (4)		(31) (32) (33) (34) (35) (36) (37) (38) (39)		
5) (6) (7) (8) (9) (0) (1) (2) (3) (4) (5)		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41)		version seed the contract
(5) (6) (7) (8) (9) (0) (1) (2) (3) (4) (6)		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42)		version seed the contract
(5) (6) (7) (8) (9) (0) (1) (2) (3) (4) (4) (5) (6) (7)		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)		version seed the contract
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(5) (6) (7) (8) (9) 10) 11) 12) 13] 144 15 16) 17) 18) 19) 20)		(31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)		version seed the contract

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back - Pg. 2 of $\frac{2}{}$)

	Certificate Holder's Se	rial Nos through
	CERTIFICATION OF DESIGN	
Design specifications certified by	Albert John Wettlaufer	P.E. State PA Reg. no. 13335-E
Design report* certified by	W. O. Shepherd (when applicable)	P.E. State N/A Reg. no. N/A
	CERTIFICATE OF COMPLIANCE	
*.	in this report are correct and that this (these) of the ASME Code, Section III, Division 1.	SEAL HOUSING
NPT Certificate of Authorization No.	N−1131	pires JUNE 10, 2002
Date <u>4/26/02</u> Name <u>FT</u>	ONSERVE CORPORATION, ROTATING EQUIPMENTS IN PROPERTY OF THE PR	led Mutte Graya (authorized regresentative)
	CERTIFICATE OF INSPECTION	
43.7 TT44-117.1	mmission issued by the National Board of Boiler and yed by HSB_CT	Pressure Vessel Inspectors and the State or Province of
of HARTFORD, CT. have i	nspected these items described in this Data Report or	4/26/02 and state that to the
best of my knowledge and belief, the III, Division 1. Each part listed has be	Certificate Holder has fabricated these parts or appu en authorized for stamping on the date shown above	urtenances in accordance with the ASME Code. Section .
	ther the inspector nor his employer shall be liable in a	pressed or implied, concerning the equipment described ny manner for any personal injury or property damage or
Date	+004.	mmissions NB 12050-N CA-1969 [Nat'l. Bd. tincl. endorsements] and state or prov. and no. i

Form No. <u>1915</u>

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

			 				
1. Owner	F.E.N.O.C		_ Date	e	10/2	5/06	
76 South M	ain Street - Akro	on, OH 44308	_ She	eet1_	of		1 Stor
2. Plant	Beaver Valley P	ower Station (B\	<u>/PS)</u> Unit	No		2	
	Shippingport, PA	\ 15077		Repair/Replacement 0	002135		-1-
3. Work Perfor	med By <u>FENO</u>		Тур	e Code Symbol	,	N	7. 7.1
	Shinningnort D/	(NAME)	Λ	harization Na		N/A	
	Shippingport, PA (ADDRESS)	1 10077		horization No			
	÷		⊏xþ	iration Date			· · · · ·
 Identification 	of System _	Service Water	(Class 3)				
(b) Applicable	Construction Code Edition of Section X Section XI Code Ca of Components	(I Utilized for Repair/ nse(s): N-416-2				· · · · · · · · · · · · · · · · · · ·	
Name of Component	Name of Manufactur er	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed, or Installed	ASME Code Stamped (Yes or No)
Piping	Schneider Power	2-SR-30-12-SWS	NA	2-SWS-003-612-3	1986	Removed	Yes
Piping	FENOC	N/A	N/A	2-SWS-003-612-3	2006	Installed	No
Cessos	and the second s	र राज्य कर है। अस्तरी संदेश कर जिल्हें	te <u>Carlo an está speciator d</u>	Memake of the section	<i>;</i>		
			:				
7. Description	of Work Repl	aced pipeline 2-	SWS-003-612-	3			
8. Tests Condi	ucted: Hydros Other [psi	minal Operating Test Temp.			mpt 🗌

_Pi	Applicable Manufacturer's Data Reports to be attached PO# 7099495-5, Ht. #A41671; 90° Elbow PO# 7125063, Ht. #M418A; and Flange PO#
4	51202, Ht. #A24.
	CERTIFICATE OF COMPLIANCE
l certif de, Se	nat the statements made in the report are correct and that this conforms to the requirements of the ASME on XI.
e Coo	Symbol Stamp N/A
rtificate	Authorization No. N/A Expiration Date N/A
ned	Owner or Owner's Designee, Title Sexual Sexual Sexual Date October 25 , 20 06
	CERTIFICATE OF INSERVICE INSPECTION
	signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
nd the	te or Province of Pennsylvania and employed by HSB CT of
wner's	Hartford, CT have inspected the components described in this port during the period $\frac{4-27-95}{}$ to $\frac{100-22-96}{}$, and state that to the
	nowledge and belief, the Owner has performed examinations and taken corrective measures described in this
	port in accordance with the requirements of the ASME Code, Section XI.
v sianir	his certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
-	s and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
hall be	le in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
nis insp	on.
	and york Commissions I, N PA2384
	Inspector's Signature National Board, State, Province, and Endorsements
	Ø-27-, 20 Ø 6
ate	

Form No.	1927	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

Owner	First Energy (NAME)			Date	10/1	0/06	
	Shippingport, PA 1 (ADDRESS)	5077		Sheet1	of	f1	
Plant	Beaver Valley P	ower Station		Unit No.		2	
	Shippingport, PA	\ 15077	 -		ler 2002 It Organization	13621 1P.O. No., Job No., 3	etc.
Work Pe	erformed By BVPS	Construction (NAME)		Type Code Symbo	l Stamp	N//	4
***************************************	Shippingport, PA	` '	<u></u>	Authorization No		N/A	
	(ADDRESS)			Expiration Date		N/A	
Identifics	ation of System	Quench Snrav	(Class 2)	•			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	Code Stamp (Yes
					Built	Removed, or	Code Stamp (Yes No)
Component	Manufacturer	Serial No.	No.	Identification	Built	Removed, or Installed	Code Stampe (Yes (No)
Piping	Manufacturer FENOC	Serial No.	No.	Identification 2-QSS-002-217-2	2006	Removed, or Installed	Code Stamp (Yes No)
Piping	FENOC FENOC	Serial No.	No.	Identification 2-QSS-002-217-2	2006	Removed, or Installed	ASMI Code Stamp (Yes (No)
Piping	FENOC FENOC	Serial No.	No. N/A N/A	Identification 2-QSS-002-217-2	2006	Removed, or Installed	Code Stampe (Yes (No)

*Record test pressure and temperature

Final Code Symbol Stamp N/A Final Code Symbol Stamp N/A Expiration Date N/A Expiration Dat	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASI ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A Certificate of Authorization No. N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A Certificate of Authorization No. N/A Expiration Date N/A Certificate of Authorization No. N/A Expiration Date N/A Certificate Of Inservice Inspection The United State of Province of Pennsylvania and employed by HSB-CT of
certify that the statements made in the report are correct and that this conforms to the requirements of the ASME a, Section XI. Code Symbol Stamp NA Expiration Date N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this near's Report during the period Y-27-05 to 1/1-1/1-0 by and state that to the story knowledge and belief, the Owner has performed examinations and taken corrective measures described in this near's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer ill be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N. P. A. 2.3.8.4	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASI de, Section XI. De Code Symbol Stamp N/A Trifficate of Authorization No. N/A Expiration Date N/A Date 1/-2/-06, 20 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this east of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
certify that the statements made in the report are correct and that this conforms to the requirements of the ASME a, Section XI. Code Symbol Stamp NA Expiration Date N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this near's Report during the period Y-27-05 to 1/1-1/1-0 by and state that to the story knowledge and belief, the Owner has performed examinations and taken corrective measures described in this near's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer ill be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N. P. A. 2.3.8.4	CERTIFICATE OF INSERVICE INSPECTION CERTIFICATE OF Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this experiments of the ASI deep. Section XI. Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this east of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
certify that the statements made in the report are correct and that this conforms to the requirements of the ASME a, Section XI. Code Symbol Stamp NA Expiration Date N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this near's Report during the period Y-27-05 to 1/1-1/1-0 by and state that to the story knowledge and belief, the Owner has performed examinations and taken corrective measures described in this near's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer ill be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N. P. A. 2.3.8.4	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASI de, Section XI. De Code Symbol Stamp N/A Tifficate of Authorization No. N/A Expiration Date N/A Date 1/-2/-06, 20 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this water's Report during the period 7-27-05 to 1/1-//-04 and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
certify that the statements made in the report are correct and that this conforms to the requirements of the ASME a, Section XI. Code Symbol Stamp NA Expiration Date N/A Expiration Date N/A CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this near's Report during the period Y-27-05 to 1/1-1/1-0 by and state that to the story knowledge and belief, the Owner has performed examinations and taken corrective measures described in this near's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer ill be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N. P. A. 2.3.8.4	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASI de, Section XI. De Code Symbol Stamp N/A Tifficate of Authorization No. N/A Expiration Date N/A Date 1/-2/-06, 20 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this water's Report during the period 7-27-05 to 1/1-//-04 and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
CERTIFICATE OF INSERVICE INSPECTION The state of Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. Section XI. Expiration Date N/A Expiration Date N/A Commissions I Expiration Date N/A Expiration Date N/A Expiration Date N/A Commissions I N/A Expiration Date N/A Expiration Date N/A N/A PARAMA N/A Commissions I N/A N/A N/A N/A N/A N/A N/A N/A	tificate of Authorization No. N/A Expiration Date N/A The Code Symbol Stamp N/A The Code Symbol Stamp N/A The Code Symbol Stamp N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A The Code Symbol Stamp N/A Expiration Date N/A The Code Symbol Stamp N/A Th
Expiration Date	tificate of Authorization No. N/A Expiration Date N/A The Manual Date 1/-2/-06, 20 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this owner's Report during the period 4-27-05 to 1/1-//-0½ and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Expiration Date	tificate of Authorization No. N/A Expiration Date N/A N/A
Date WILLIAM VILLITICA CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors In the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this ner's Report during the period Y-27-05 to 11-1/-04 and state that to the stof my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, M, P, 23 84	Date 1/-2/-06 . 20 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors defined the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this wher's Report during the period 4/-27-05 to 1/-//-04 and state that to the st of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors If the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this ner's Report during the period Y-27-05 to II-II-04 and state that to the of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. Signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions T, M, P + 23 84	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors defined the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors defined the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Board of Boiler and Pressure Vessel Inspectors described in this will be served by the National Boa
the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this ner's Report during the period 4-27-05 to 11-11-04 and state that to the stof my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer the be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P, 2, 3, 8, 4	the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors of the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this wher's Report during the period Y-27-05 to 11-11-04, and state that to the st of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this ner's Report during the period Y-27-05 to II-II-04 and state that to the stof my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions T, M, P + 23 84	the State or Province of Pennsylvania and employed by HSB-CT of Hartford, Connecticut have inspected the components described in this when's Report during the period Y-27-05 to 1/-//-04 and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Hartford, Connecticut have inspected the components described in this ner's Report during the period Y-27-05 to 11-11-06 and state that to the stof my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions T. M. P. + 23 84	Hartford, Connecticut have inspected the components described in this when's Report during the period $\frac{4-27-05}{10}$ to $\frac{11-11-01}{10}$ and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
ner's Report during the period $Y-27-05$ to $11-11-06$ and state that to the st of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I , I , I , I , I , I , I , I ,	wher's Report during the period $\frac{4-27-05}{100000000000000000000000000000000000$
tof my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this ner's Report in accordance with the requirements of the ASME Code, Section XI. signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P, 4, 23, 84	est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the iminations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P + 23 84	
signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the minations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P + 2384	mea s report in accordance with the requirements of the ASMC Code, Section A.
iminations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P + 2384	
the liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with inspection. Commissions I, N, P + 2384	signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
lea S. Zynch Commissions I, N, P+2384	aminations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
Dea S. Zynih Commissions I, N, P+2384	all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
	s inspection.
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•	Padana bond, onto, i romice, all andispirate

Form No	1930

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

	As Require	ed by the Provis	sions of the A	SME Code Secti	on XI		
1. Owner	F.E.N.O.C		_ Dat	e	11/1	4/06	
76 South M	ain Street - Akro	on, OH 44308	_ She	et <u>1</u>	of	3	
2. Plant	Beaver Valley Po	ower Station (BV	<u>(PS)</u> Uni	t No.	2	<u> </u>	
	Shippingport, PA (ADDRESS)	15077	1 3 x x x x x x x x x x x x x x x x x x	Work Order No Repair/Replacement			
3. Work Perfor	med By <u>BVPS-M</u>	aintenance & Construct (NAME)	ion Services Typ	e Code Symbol	Stamp		<u> /A</u>
	Shippingport, PA	15077	Aut	horization No		N/A	·
	(ADDRESS)		Ext	oiration Date		*	
4 Identification	n of System	Chemical and \	/olume Control	(Class 2)			
(c) Applicable	e Edition of Section X e Section XI Code Ca n of Components	se(s): <u>N-416-2</u>	Replacement Activ	rity <u>1989</u>			·
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Otber Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes-or No)
Pump	Pacific Pump	53883	638	2CHS-P21B	1982	Corrected	Yes
Discharge Head	Flowserve	RLSA04373	N/A	Head, bypass pipe and flange	2003	Installed	Yes
Seal Housing	Flowserve		N/A	N/A	2002	Installed	Yes
Seal Housing	Flowserve	RLSA00943	N/A	N/A	2001	Installed	No
7. Description	of Work Rep	laced pump disc	harge head an	d nuts, inboard &	outboa	ard seal ho	usings,
	inlet	& outlet flange:	studs/nuts and	sections of lube	oil pipin	g	
8. Tests Cond	ucted: Hydros Other	_	umatic*	ominal Operating Test Temp.			empt 🗌

*Record test pressure and temperature

9. Remarks Code Data Reports attached. Replaced sections of lube oil piping designed to ANSI B31.1
Applicable Manufacturer's Data Reports to be attached 1967E-S'72A. All bolting was supplied by Nova Machine to ASME Sect. III Class 1 as follows:
1307 L-0 72A. Fill bodding was supplied by Norta Indontito to North Cook, in class 1 do tolle live.
%" Studs: P.O. 47048563 / Ht. #M794; %" Nuts: P.O. 47042699 / Ht. #K553, P.O. 47082641 / Ht.;
#R512; 5/8" Studs: P.O. 45106298 / Ht. #H633, 5/8" Nuts: P.O. 47082958 / Ht.#P914; 1-3/4" Nuts:
D.O. 7004000 / I.B. #C000 4 2/4" ChJ-: D.O. 45404545 / LH #1557
P.O. 7081202 / Ht. #C888, 1-3/4" Studs: P.O. 45104515 / Ht. #J557.
CERTIFICATE OF COMPLIANCE
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME
Code, Section XI.
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration DateN/A
Signed Senior Specialist Date January 16
Owner or Owner's Designee, Title
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{11-11-06}{}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Our invited this could not be investigated to be a supplied and the
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
uia iispecuoi.
Dean f. Which commissions NB 9428 ANIB PAZ384
Inspector's Signature National Board, State, Province, and Endorsements

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III Not to Exceed One Day's Production

Pa. 1 of 2

Manufactured and certified by	Flowserve Cor	p., 2300 E. Vernon Ave		0058
Manufactured for First Ener	rgy Corp., PO Box 3611, Al			· ·
Location of installation First	Energy Corp., Long Term		ngport, PA 1507	7
	ASME SA 182 F304	75 KSI Min.	NA	2003
(drawing no.)	(mat'l. spec. ng.)	(tensile strength)	(CRN)	(year built)
ASME Code, Section III, Division	1:(edition)	Summer 72	2 (class)	ICode Case no.1
Fabricated in accordance with Co	onst Spec (Div 2 only)	NA Revision	, NA	Date NA
	ssembly, Discharge Head, C	(no.)		
Remarks:	semory, Discharge Head, C	onsisting of	<u> </u>	
He	ad-SA 182 F304, Bypass P	Pipe-SA 312 304L, Byp	ass Flange-SA 18	2 F304
				
•				
4.625"		4.500°	1' 10"	0, 0 375
Nom. thickness (in.) 4.625"	_ Min. design thickness (in.)	4.500" Dia. ID (ft & in	.) Leng	th overall (ft & in.)0', 9.375
When applicable, Certificate Hold	ders' Data Reports are attache			
			·	
		.		
Part or Appurtenance	National	Part or A	ppurtenance	National
Serial Number	Board No.	Seria	l Number	Board No.
	in Numerical Order	* *		in Numerical Order
(1) RLSA04373	NA	(26)		
(2)		(27)		
(3)		1 1 -		
(4)	- 1	1 1		
(5)		4 1		
•••				· · · · · · · · · · · · · · · · · · ·
	•	1 1/21\	1	
(6)		1 1		***************************************
(7)		(32)		
(8)		(32)		
(7) (8) (9)		(32) (33) (34)		
(7) (8) (9) (10)		(32) (33) (34) (35)	4-	
(7)		(32)		
(7) (8) (9) (10) (11) (12)		(32) (33) (34) (35) (36) (37)		
(7) (8) (9) (10) (11) (12) (13)		(32)		
(7) (8) (9) (10) (11) (12) (13) (14)		(32)		
(7) (8) (9) (10) (11) (12) (13) (14) (15)		(32) (33) (34) (35) (36) (37) (38) (39) (40)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16)		(32) (33) (34) (35) (36) (37) (38) (39) (40)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (44) (45) (46)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48)		
(7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)		(32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (44) (45) (46)		

(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield, NJ 07007-2300.

(when applicable)

^{*}Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back - Pg. 2 of ____)

RLSA04373

NA

Certificate Holder's Serial Nos. CERTIFICATION OF DESIGN 13335-E Albert John Wettlaufer PA Reg. no. P.E. State Design specifications certified by NA NA John R. Lighle P.E. State Reg. no. Design report* certified by (when applicable) CERTIFICATE OF COMPLIANCE Assembly, Discharge Head We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III, Division 1. June 10, 2005 NPT Certificate of Authorization No. **Expires** Flowserve Corp., Pump Division Date . (NPT Certificate Holder) CERTIFICATE OF INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Hartford, CT and employed by HSB-CT 7/18/03 have inspected these items described in this Data Report on ... , and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurtenances in accordance with the ASME Code, Section III, Division 1. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection: CA1969

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III

Manufactured and certified byFL	ORSERVE CORP., ROTATING	G EQUIPMENT DIVISION,	2300 EAST VERN	ON AVE., VERNON, CA 9
Mandractured and certified by		(name and address of NPT Cen	ificate Holderi	
Manufactured for FIRST ENERGY	BEAVER VALLEY, SHIPPII	GPÓRT, PA 15077 (name and address of Purchaser)		
ocation of installation FIRST E	NERGY, BEAVER VALLEY,	(name and address)	7	
D17368-00-00-05P-SP	ASME SA-182 GR. P-304	75,000	n/a	2002
Ype: D17368-00-00-0SP-SP (drawing no.1	(mat'l. spec. no.)	(tensile strength)	(CRN)	(year built)
ASME Code, Section III, Division 1:	1971	STEMER 1972	2	N/A
	(edition)	laddenda datel	(class)	(Code Case no.)
abricated in accordance with Con-	st. Spec. (Div. 2 only)	Revision	N/A	Date N/A
Remarks:FLOWSERVE_JOB_NO.	: RLCA00920 NOMEN	LATURE: SEAL HOUSING	MAT'L. TYPE:	ASME SA-182 GR. F-3
ierrarks.		angle and angle Market	·	
				·
lom. thickness (in.) <u>1.062</u> N Vhen applicable, Certificate Holder				verall (ft & in.) 0 2.984 er
		—		
Part or Appurtenance	National	Part or Appu	tenance	National
Serial Number	Board No.	Serial Nu		Board No.
	in Numerical Order			in Numerical Order
(1) RLSA03092		(26)		3
(2)		(27)		· · · · · · · · · · · · · · · · · · ·
. (3)		(28)		
(4)		(29)		
(5)	· ·	(30)	1	
(6)		(31)	1	
(7)		(32)		
(8)		(33)		
(9)		1 1		
(10)		1331		
		1361	1	
(11)		(36)		······································
(12)		(37)		
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(12)		(37)		
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(12) (13) (14) (15) (16)		(37)		
(12)		(37) (38) (39) (40) (41) (42) (43)		
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(12/88)

This form (E00040) may be obtained from the Order Dept., ASME, 22 Law Drive, Box 2300, Fairfield. NJ 07007-2300.

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8½ × 11. (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back - Pg. 2 of _2_)

	Cer	tificate Holder's Serial N	os	t	nrough	
:	CERTIFICATI	ON OF DESIGN				
Design specifications certified by	Albert John Mettlaufer (when applicable	ei	P.E. State _	PA	Reg. no.	13335-Е
Design report* certified by	W. O. Shepherd (ween applicable)		P.E. State _	N/A	Reg. no.	N/A
-	CERTIFICATE (OF COMPLIANCE				
We certify that the statements made		uns (these)	EAL HOUSING			
conforms to the rules of construction	of the ASME Code, Section III, Di	vision 1.		4		
NPT Certificate of Authorization No	N-1131	Expires	JUNE 10, 20	002	· · ·	
Date <u>4/26/02</u> Name <u>F1.0</u>	RSERVE CORPORATION, ROTATION (NPT Certificate Holder) DI	NG POUTPHENSigned	Mutt.	uthánzád rep	resentativel	
	CERTIFICATE	OF INSPECTION				
I, the undersigned, holding a valid cor	nmission issued by the National B	oard of Boiler and Pressi	ure Vessel Inspe	ectors and	the State o	or Province of
TTT CONTROL CONT	spected these items described in	this Data Report on	4/26/02		, and sta	te that to the
best of my knowledge and belief, the III, Division 1. Each part listed has been			nces in accorda	nce with	the ASME (Cade, Section
By signing this certificate, neither the		• •		_		
in this Data Report. Furthermore, neithermore, neithermore, neithermore, and the loss of any kind arising from or connection.	4 + 2	shall be liable in any ma	nner for any per	sonal inju	ry or proper	ty damage or
1055 OF ALTY KIND ACISING ITOM OF CORNE	cted with this propection.		•			3
Date Signed	7.U.OM	Commiss		12050-1	CA-1969	
	(Authorized Inspector)		[Nat'l. Bd. (in	ct. endorsem	entsi and state	or prov. and no.1

Form No.	1931
i Ottili 140.	1991

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner F.E.N.O.C (NAME)				te	11/0	9/06	
76 South M	76 South Main Street – Akron, OH 44308 (ADDRESS)				of	f3	3
Plant	Beaver Valley P	ower Station (B	<u>/PS)</u> Uni	it No.		2	
	Shippingport, P/ (ADDRESS)	A 15077		Work (Repair/Replacement	Organization	0158719 1P.O. No., Job N	o., etc.
Work Perfo	rmed By <u>BVPS</u>	·		e Code Symbol		•	V/A
	Shippingport, P/	, ,	Aut	thorization No		N/A	
	(ADDRESS)		Exp	oiration Date _		a	
Identificatio	n of System _	Main Steam (C	lass 2)				
identificatio	n of Components	•					
Name of Component	Name of Manufacturer	Manufacturer Scrial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or N
Name of	Name of	Manufacturer				Removed, or	Code Stamped
Name of Component Valve	Name of Manufacturer Atwood &	Manufacturer Serial No.	No.	Identification	Built	Removed, or Installed	Code Stamped (Yes or M
Name of Component Valve	Name of Manufacturer Atwood & Morrill	Manufacturer Serial No. 1-15579-03	N/A	1dentification 2MSS-AOV101A	1987	Removed, or Installed	Code Stamped (Yes or N
Name of Component	Name of Manufacturer Atwood & Morrill Weir Valve	Manufacturer Serial No. 1-15579-03	N/A	1dentification 2MSS-AOV101A	1987	Removed, or Installed	Code Stamped (Yes or N
Name of Component Valve	Name of Manufacturer Atwood & Morrill Weir Valve	Manufacturer Serial No. 1-15579-03	N/A	1dentification 2MSS-AOV101A	1987	Removed, or Installed	Code Stamped (Yes or N
Name of Component Valve	Name of Manufacturer Atwood & Morrill Weir Valve	Manufacturer Serial No. 1-15579-03	N/A N/A	2MSS-AOV101A Ht. #73130	1987 2003	Removed, or Installed Corrected Installed	Yes Yes

*Record test pressure and temperature

	ble Manufacturer's Data Reports to be attached
	et (S/N-1, Ht. #6068460) was repaired by Weir Valve under
P.O. 55105736 by having the stellite re	eplaced.
•	
CERTIFIC	CATE OF COMPLIANCE
I certify that the statements made in the report	are correct and that this conforms to the requirements of the ASME
ode, Section XI.	
0.1.0.1.101	·
ype Code Symbol Stamp N/A	· · · · · · · · · · · · · · · · · · ·
certificate of Authorization NoN/A	Expiration DateN/A
	,
Signed School Series	Specia IT Date November 21, 20 06
Owner or Owner's Designee, Title	Date November 21 , 20 00
CERTIFICATI	E OF INSERVICE INSPECTION
•	
t the undersigned holding a valid commission issued	by the National Board of Boiler and Pressure Vessel Inspectors
i, the undersigned, notding a valid commission issued	by the National Board of Boner and Freezone vessel hispectors
and the Ctate or Drawings of Departureis and	ampleyed by UCD CT of
and the State or Province of Pennsylvania and	
Hartford, CT hav	re inspected the components described in this
Hartford, CT hav Owner's Report during the period 4-	we inspected the components described in this $27-05$ to $11-11-06$, and state that to the
Hartford, CT hav Owner's Report during the period 4- best of my knowledge and belief, the Owner has perfor	we inspected the components described in this $27-05$ to $1/-1/-06$, and state that to the med examinations and taken corrective measures described in this
Hartford, CT hav Owner's Report during the period 4-	we inspected the components described in this $27-05$ to $1/-1/-06$, and state that to the med examinations and taken corrective measures described in this
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his	re inspected the components described in this 27-05 to
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Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfort Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his of examinations and corrective measures described in this	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his examinations and corrective measures described in this shall be liable in any manner for any personal injury or	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his examinations and corrective measures described in this shall be liable in any manner for any personal injury or	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his examinations and corrective measures described in this shall be liable in any manner for any personal injury or	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his examinations and corrective measures described in this shall be liable in any manner for any personal injury or	re inspected the components described in this 27-05 to
Hartford, CT hav Owner's Report during the period best of my knowledge and belief, the Owner has perfor Owner's Report in accordance with the requirements of By signing this certificate neither the inspector nor his examinations and corrective measures described in this shall be liable in any manner for any personal injury or this inspection.	re inspected the components described in this 27-05 to

nt By	y: ATWOOD&MORRILL CO.	j HE	9787409668	; Nov	-21-06 12:	01PM;	Page
Cor	FORM NPV-1 N CE rected Copy As R	-93	OLDERS' DATA RE				ES
3	R. Manufactured for Duque Duque Location of Installation C Pump or Valve Va (a) Model No., (b) N	Name and Address Size Light Colored Beaver Vall Name and Address Lve Certificate Hole	Ley Station 2, Nominal l der's (c) Canadian	older) Inlet Size	Pittsb Shippi	nggh, PA	(inch)
•	Series Na. or Type	Serial No.	Reģistration No.	(d) Drawing No.	(e) Class	(f) Nat'l. Bd. No.	(g) Year • Built
·	(1) 28" Main Steam (2) Isolation Valv (3) (4) (5)*Sol	2	6 Webster Engi	15579-03 Rev. 0	2	N/A	: 1987 : :
			aterial procure 75 Addenda. Res				Lon
	Main Steam	(Brief das	cription of service for wh	ich equipment was d	asigned)		
7	. Design Conditions	ressure 500	osi 560 (Temperature) si at 100°F.	°F or Valve P	ressure Class	N/A	{1
	Mark No.	Mate	rial Spec. No.	Manufact	turer	Remarks	
	(a) Castings Body	SA 216 Gr	WCC	Newport New	S	4276B-1	·
				Shipbuildin	5		
en en en							;
	(b) Forgings						· · · · · · · · · · · · · · · · · · ·
	Popper	SA 105 O	& T	Cann & Saul	Steel	6068460-1	
: 1	Cover	SA 105 Q	& T	Cann & Saul	Stee1	6068460-1	· · ·
	** Pilot Poppet	SA 182 Gr	• F6a	Cann & Saul	Steel	30611-1	

⁽¹⁾ For manually operated valves only

[&]quot;Supplemental information in the form of lists, skotches, or drawings may be used provided (1) size is 8% x 11, (2) information in Items 1 through 4 on Itils Date Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form, and (4) each additional sheet sheet sheet by the Certificate Holder and the ANI.

	FORM NPV	I (Back)	•
Mark Ng.	Material Spec. No.	Manulacturer	Remarks
(c) Bolting			
Studs	A 540 Gr. B23 Cl. 5	Jos. Dyson & Son	Trace F1776
Nuts	A 540 Gr. B23 Cl. 5	Jos. Dyson & Son	Trace F1773
Hydrostatic test 2250 ps	Disk Differential test pressure 1	650 pei .	:
	CERTIFICATE OF CO	OMPLIANCE	
Instruction of the ASME Co	made in this report are correct per for Nuclear Power Plant Comp	conents Section III Div 1 Fo	conforms to the rules of lition
	. Code Case No. N/A		5/1/8/
(N Certificate Holi	ration No. N2606 to u		of expires 6-13-89
		(14)	(Dete)
	CERTIFICATION O	DESIGN	
esign information on file at _	211	neering	
tress analysis report (Class T	only) on file at N/A		· · · · · · · · · · · · · · · · · · ·
esign specifications certified t	(1) <u>Dennis Paul Lessar</u>	<u>d</u>	
tress analysis certified by (1) E State <u>N/A</u>			
Signature not required. List			: :
	CERTIFICATE OF SHOR	•	
the undersigned, holding a land the State or Province of	hid commission issued by the N	ational Board of Boiler and Pi and employed by H.S.B.	
Hartford CT	have inspected the	pump, or valve, described	in this Data Report on
, , , , , , , , , , , , , , , , , , , ,	#27, and state that to the best of accordance with the ASME Code,	my knowledge and belief, the N	Certificate Holder has con-
signing this certificate, neit	er the inspector nor his employer	makes any warranty, expresse	ed or implied, concerning
e equipment described in thi	Data Report. Furthermore, neither or property damage or a loss of an	er the Inspector nor his emplo	yer shall be liable in any
ate Of Hay	1987	e e e e e e e e e e e e e e e e e e e	
(Inspector)	Commissio	ins <u>NA-122/PA-ku</u> (Nari Bd., State, Pro	C 25/4/

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES" As Required by the Provisions of the ASME Code, Section III

Day's Production Pg. 1 of 2	ed One Day's Pro	lot to Excee				
285 Canal Street Salem, MA 01970	JSA, Inç. 285 Can	L Controls US	Weir Viewes	d certified by	factured and	Manuf
icata Molder)	or Net Cordificate Holden town, PA 15907-6	ame and address of		First Fne	factured for	Manuf
ddress al Purchaser)	(name and address of Purch	(r				
oute 16B, Shippingport PA 15077	Plant, Route 16B, (<u>∍r Valley Nu</u>	lation Bear	ion of install:	Locatio
	0 88100 PSI (tensile strength)	79, S30400 lettl spec, m.)		146-303-C R (drawing na.)	*324	Гуре:
dataj (class) (Code Case (to.)	S'1979 (addenda data)	77 ion)		ction III, Division	E Code, Sec	ASME
NA NA Date	N/A N/A		st. Spec (Div.	cordance with C	cated in acc	Fabric
A&M P/N 32446-303-4226-000 QLA	Poppet A&M P/N	Qty. 1 Pilot F				Remai
tion meets required information of	certification meets			68311) -Dwg ion III 1977 E		
				1		
Dia, ID (ft & in.) N/A Length overall (ft& in.) N/A		· · · —	Min. decien the	`	Thickness (
em of this report:	for each item of this rep	are attached fo	ns' Data Repor	, Certificate Hol	applicable,	When
Part or Appuitenance National Serial Number Board No. In Numerical Order		No.	Natio Board In Numeri	Number Number	Part or App Serial N	
III Aditiation Order		at Other				
	(26)		N/	3130 S/N: 3	HT: 73	(1) (2)
· · · · · · · · · · · · · · · · · · ·	(27)					(3)
	(29)		 		 	(4)
	(30)					(5)
	(31)					(6)
	(32)					(7)
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	(34)					(9)
	(35)		<u> </u>			(10) (11)
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·	(46)		 			(21) (22)
	(47)		 - -			(23)
	(48)		 			(24)
	(50)		 			(25)
i i	1 8 7	,	I III			

FORM N-2 (Back - Pg. 2 of 2)

	Cen	ilicale Holders Senai I	Nos. H1;7	3130 S/N 3	rutorigu N/A	
	CERTIFI	CATION OF DESIGN			· }	
Design specifications certified by	N/A (when applicable)	P.E. State	N/A	Reg. no.	N/A	
Design report * certified by	N/A Den appticable)	P.E. State	N/A	Reg. no	N/A	
	CERTIFICA	ATE OF COMPLIANCE	E	. 1		٠.
We certify that the statements made in this re	ort are correct and the	il this (these)		Pilot Pop	pet	
conforms to the rules of construction of the A	E Code, Section III,	Division 1.	 	<u>्रिक्रकार्यक्र एक जात</u> े	velik wa za a da a ji a sa da da	100
NPT Certificate of Authorization No.	N2607	Expires		6-13	04	15 Jul
Date 9/25/03 Name	Veir Valves & Co		Signed A	orca di fauthor	Sulliva .	
						_
	CERTIFIC	ATE OF INSPECTION	.			
I, the undersigned, holding a valid commissi	d lesued by the Nation	al Board of Boiler and	Pressure Ves	sel Inspectors an	d the State of Province of	of
MA. And e	iplayed by		HS	BCT		
of Hartford, CT he	inspected these item	s described in this Dat	a Report on	Serventer 25.	347 , and state that to t	the
Best of my knowledge and belief, the Cartific III, Division 1. Each part listed has been auti	Holder has fabricate	d these parts or appur	tenances in a	ccordance With U	ne ASME Code, Section	
By signing this certificate, neither the inspect	dinor his employer mai	kes any warranty, expr	essed or impl	ied, concemin:) ti	ne equipment described	
in this Data Report. Furthermore, neither the loss of any kind arising from or connected with	Hispector nor his emple	oyer shall be liable in a	iny manner fo	r any personal in	ury or property damage	or
		•		1 -		
Date Salvenber 25 Co Signed	Jehr York		Commissions	Ma 13	72	
	guthorizoghnu	sector)		(Natt'Ed., (incl. Ende	orsements) and state or prov. and	I.oo.I
	#			-	<u> </u>	

Form No.	1934

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner	Owner <u>F.E.N.O.C</u> (NAME)			e	11/0	4/06	
76 South Main Street – Akron, OH 44308 (ADDRESS)				eet <u>1</u>	of	2	<u> </u>
Plant B	eaver Valley P	ower Station (BV	<u>/PS)</u> Uni	t No.		2	
S	hippingport, PA (ADDRESS)	A 15077	·	Repair/Replacement	Organization	00016324 1 P.O. No., Job N	o., etc.
Work Perform	ed By <u>BVPS</u>	-Construction Se	ervice Typ	e Code Symbol		1	I/A
S	hippingport, PA	. ,	Aut	horization No		N/A_	
	(ADDRESS)		Exp	oiration Date _		u	\$1 ₃
Identification of	of System	Main Steam (C	lass 2)			ń	
(c) Applicable S	Section XI Code Ca	ase(s): <u>N/A</u>					
Identification of	of Components	3			·		
Identification (Of Components Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed. or Installed	ASME Code Stamped (Yes or No
Name of Component	Name of	Manufactu rer				Removed. or	Code Stamped
Name of Component afety Valve	Name of Manufacturer	Manufacturer Serial No.	No.	Identification	Built	Removed. or Installed	Code Stamped (Yes or No
Name of Component afety Valve afety Valve	Name of Manufacturer Crosby Valve	Manufacturer Serial No. N57636-00-0015	748	1dentification 2MSS-SV105C	Buih 1977	Removed. or Installed Removed	Code Stamped (Yes or No Yes
Name of Component afety Valve afety Valve Plug	Name of Manufacturer Crosby Valve Crosby Valve	Manufacturer Serial No. N57636-00-0015 N57636-00-0016	748 1051	2MSS-SV105C 2MSS-SV105C	1977 1986	Removed. or Installed Removed Installed	Code Stamped (Yes or No Yes
Name of Component afety Valve afety Valve Plug Disc Insert	Name of Manufacturer Crosby Valve Crosby Valve Energy & Process	Manufacturer Serial No. N57636-00-0015 N57636-00-0016	No. 748 1051	2MSS-SV105C 2MSS-SV105C 2MSS-SV105C Lot #9428	1977 1986 2006	Removed. or Installed Removed Installed	Yes Yes No
Name of Component afety Valve afety Valve Plug Disc Insert	Name of Manufacturer Crosby Valve Crosby Valve Energy & Process Crosby Valve	Manufacturer Serial No. N57636-00-0015 N57636-00-0016 N/A N91124-58-0360	No. 748 1051 N/A N/A	2MSS-SV105C 2MSS-SV105C 2MSS-SV105C Lot #9428	1977 1986 2006 1985	Removed or Installed Removed Installed Installed Installed	Yes No

*Record test pressure and temperature

104530-727 Fit. #90582-11G. Re	placement valve s/n N57636-00-0016 was repaired by Anderson
Greenwood Crosby under P.O. 55	5102718 by replacing the disc insert.
CEI	RTIFICATE OF COMPLIANCE
I certify that the statements made in the rede, Section XI.	eport are correct and that this conforms to the requirements of the ASME
pe Code Symbol Stamp N/A	
rtificate of Authorization NoN/A	Expiration DateN/A
$\ell_0 \subset$	
ned Cult	Senior Specialist Date January 16, 2007
Owner or Owner's Designee, Title	le
CERTIF	FICATE OF INSERVICE INSPECTION
•	
the undersigned, holding a valid commission is	ssued by the National Board of Boiler and Pressure Vessel Inspectors
nd the State or Province of Pennsylvania	•
	have inspected the components described in this
wner's Report during the period	$\frac{4-27-05}{10}$ to $\frac{11-11-06}{10}$, and state that to the
est of my knowledge and belief, the Owner has	performed examinations and taken corrective measures described in this
owner's Report in accordance with the requirem	nents of the ASME Code, Section XI.
•	or his employer makes any warranty, expressed or implied, concerning the
	d in this Owner's Report. Furthermore, neither the inspector nor his employer
hall he liable in any manner for any nersonal ini	jury or property damage or a loss of any kind arising from or connected with
•	
•	
•	
•	189428 AJED PAZZRU
Dean S. Junia Inspection. Inspector's Signature	Commissions NB9428 ANIB PA2384 National Board, State, Province, and Endorsements



ROSBY VALVE & GAGE COMPANY WRENTHAM, MASS

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES As required by the Provisions of the ASME Code Rules

Q.C.-44C-1

DATA REPORT Safety and Safety Relief Valves

1. Manufactured By Crosby Valve &	Gage Co., 43 Kendrick	St., Wrentham, MA 02093
Duquesne Light 2. Manufactured For 301 Grant St.	Contract Date t Co., One Oxford Centr	
taran da antara da antara da antara da antara da antara da antara da antara da antara da antara da antara da a	A Committee of the State of the	ey Power Station - Unit #2
4. Location of Plant Pennsylva	ania	
5. Valve Identification	Serial No. <u>N57636-00-001</u>	6 Drawing No DS-C-57636 Rev. D
Type Safety Valve Safety Safety Relief, Pilot, Power		13 Pipe Size Inlet 6 Outlet 10
6. Set Pressure (PSIG) 1125	<u></u>	561 F
		e Valve
7. The material, design, construction and	workmanship comply with ASME C	ode, Section III. 1973 ,Case No. 1574 Material Specification
7. The material, design, construction and construction an	workmanship comply with ASME C 71_,Addenda Date_Summer	ode, Section III. 1973 ,Case No. 1574
7. The material, design, construction and construction an	workmanship comply with ASME C 71 , Addenda Date Summer ning Components Serial No.	ode, Section III. 1973 ,Case No. 1574 Material Specification
7. The material, design, construction and construction an	workmanship comply with ASME C 71 , Addenda Date Summer ning Components Serial No. Identification	Material Specification Including Type or Grade
7. The material, design, construction and solution 2 Edition 19 Pressure Containing or Pressure Retain a. XXXXIIIS Forgings Body	workmanship comply with ASME C 71 , Addenda Date Summer ning Components Serial No. Identification N90810-33-0018	Material Specification Including Type or Grade ASTM A105
7. The material, design, construction and solution. Class 2 Edition 19 Pressure Containing or Pressure Retain a. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	workmanship comply with ASME C 71 , Addenda Date Summer ning Components Serial No. Identification N90810-33-0018	Material Specification Including Type or Grade ASTM A105
7. The material, design, construction and construction an	workmanship comply with ASME C 71_,Addenda Date Summer ning Components Serial No. Identification N90810-33-0018 N90813-32-0016	Material Specification including Type or Grade ASTM A105 ASTM A105
7. The material, design, construction and construction an	workmanship comply with ASME C 71_,Addenda Date Summer ning Components Serial No. Identification N90810-33-0018 N90813-32-0016.	Material Specification Including Type or Grade ASTM A105 ASTM A193 B6
7. The material, design, construction and solution. Class 2 Edition 19 Pressure Containing or Pressure Retain a. XXXXIII Forgings Body Bonnet b. Bar Stock and Forgings Suppose Burdands Bearing Adapter Nozzle	workmanship comply with ASME C 71_,Addenda Date Summer ning Components Serial No. Identification N90810-33-0018 N90813-32-0016. N90087-58-0434 N90812-35-0018	Material Specification Including Type or Grade ASTM A105 ASTM A193 B6 ASTM A182 F316
7. The material, design, construction and solutions. Class 2 Edition 19 Pressure Containing or Pressure Retain a. XXXXIII Forgings Body Bonnet b. Bar Stock and Forgings Suppose Burda Bearing Adapter Nozzle Disc Insert	workmanship comply with ASME C 71 ,Addenda Date Summer ning Components Serial No. Identification N90810-33-0018 N90813-32-0016 N90087-58-0434 N90812-35-0018 N91124-63-0375	Material Specification Including Type or Grade ASTM A105 ASTM A193 B6 ASTM A182 F316 ASTM A182 F316

Serial No. or Material Specification Identification Including Type or Grade ** See Below * See Below c. Spring d. Bolting é. Other Parts such as Pilot Components *K57217-37-0065 · Spring & Washer Assy *N89001-54-0271 ** ASTM A105 Spring Washer Spring Washer Assy *K57201-51-0150 Spring Washer ** ASTM A105 ***N90089-50-0151** ** ASTM A552 *NX2626-0119 Spring ASTM A193 GR B7 Bonnet Stud N88480 ASTM A194 CL 2H Bonnet Nut N88481 ASTM A193' GR B7 N90764 Inlet Stud We certify that the statements made in this report are correct. Date 1-27-19 86 Signed Crosby Valve & Gage Co. Certificate of Authorization No. 1878 expires September 30, 1986.

CERTIFICATE OF SHOP INSPECTION

I. the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel inspectors and the State or Province of Mass. ______ and employed by Arkwright-Boston Manufacturers Mutual Insurance Company have inspected the equipment described in this Data Report on ______ 27 ____ 19 82 and state that to the best of my knowledge and belief, the Manufacturer has constructed this equipment in accordance with the applicable Subsections of ASME Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date Jawary 27 19 82 Factory Mutual System

(Inspector) Commissions NB 9792-N MASS 1375 PAWC 3327

National Board, State, Province and No.)

-	4005	
Form No.	1935	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

			· · · · · · · · · · · · · · · · · · ·				·
1. Owner <u>Firs</u>	tEnergy Nuclear	Operating Comp	<u>pany</u> Dat	e <u>N</u> o	ovembe	er 9, 2006	
76 S. N	Main St. Akron, O	H 44308	She	eet1_	of		2
2. Plant	Beaver Valley Po	ower Station	Uni	t No.	Un	it 2	
	Route 168, Ship	pingport, PA 150)77 ECF	2 05-0355, WO# 200 Repair/Replacement 0			
3. Work Perfor	med By Westing	house Electric C	Сотр. Тур	e Code Symbol	, Stamp	1	N/A
4350 Northe	ern Pike, Monroe	ville, PA 15146	Aut	horization No		N/A	
	(ADDRESS)		Exp	iration Date		N/A	
-	•						
4. Identification	n of System	Reactor Coolar	nt System (Clas	s 1)			
	Construction Code (\) Construction Code (\)			ition, <u>S 72</u> Addendation, <u>W 72</u> Addend			
(c) Applicable	e Edition of Section X e Section XI Code Ca n of Components	se(s): N-504-2, N-6		•			not needed)
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Pressurizer Vessel	Westinghouse	1971	W18695	2RCS*PRE21	1978	Corrected	Yes
Pressurizer	N/A	N/A	N/A		1987	Corrected	Yes
Piping: Spray Safety A Safety B Safety C PORV Surge	្រ ។ ប្រភពសាស្ត្រ	# 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aria arian arian arian arian arian arian arian arian arian arian arian arian arian arian arian arian arian ari	2-RCS-004-202-1 2-RCS-006-103-1 2-RCS-006-102-1 2-RCS-006-101-1 2-RCS-006-107-1 2-RCS-014-84-1			tre. Tre.
Weld	N/A	N/A	N/A		2006	Installed	No
Overlays: Spray Safety A Safety B Safety C POR V Surge				2RCS*PRE21- 202Z-OV-01 103C-OV-01 102B-OV-01 101A-OV-01 107Z-OV-01 84Z-OV-01			<u>.</u>
7. Description	of Work Full strand surge nozzles ucted: Hydrosi Other	extending from	the low-alloy s		rial to t Pressu	he stainles re ⊠ Exe	ss steel

*Record test pressure and temperature

. Remarks <u>Previous NIS-2 Da</u>	ata Report Nos. 055 and 057. N-1 attached to 057. Applicable Manufacturer's Data Reports to be attached
· ·	
A	CERTIFICATE OF COMPLIANCE
I certify that the statements made ode, Section XI.	in the report are correct and that this conforms to the requirements of the ASME
rpe Code Symbol Stamp N/A	
ertificate of Authorization No.	N/A Expiration Date N/A
00 PM AL	7
igned See March	SR. ENLINEER Date 12/12 , 20 06 esignee, Title
V Owner or Owner's D	esignee, Title
	CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid com	mission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of PA	
	have inspected the components described in this
Owner's Report during the period	4-27-05 to $1/-1/-06$, and state that to the
best of my/knowledge and belief, the O	wner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the	requirements of the ASME Code, Section XI.
• • •	spector nor his employer makes any warranty, expressed or implied, concerning the
1	described in this Owner's Report. Furthermore, neither the inspector nor his employer
snall be liable in any manner for any pe this lospertion	rsonal friuny or property damage or a loss of any kind arising from or connected with
uns inspection.	
0	
Dean S. her	Commissions NB 1428 ANIB PA2384
Inspector's Signature	National Board, State, Province, and Endorsements

Form No	1936

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY ** As Required by the Provisions of the ASME Code Section XI

1.	Owner	F.E.N.O.C		Da	ite	10	/25/06	
	76 South M	lain Street – Akro	on, OH 44308	_ Sh	eet	1	of2	•
2.	Plant	Beaver Valley P	ower Station (B)	<u>VPS)</u> Ur	it No.		2	
, .		Shippingport, PA (ADDRESS)	\ 15077		Repair/Replaceme	20002(ent Organiza	0055 tion P.O. No., Job No	o., etc.
3.	Work Perfor	med By <u>FENC</u>	C Maintenance	Т	pe Code Symbo	ol Stam	p <u> </u>	I/A
		Shippingport, PA	\ 15077	Au	thorization No.		N/A	
		(ADDRESS)		Ex	piration Date			
					•			
4.	Identificatio	n of System	Steam Genera	tor Feedwater	(Class 3)			
•	(c) Applicable	e Edition of Section X e Section XI Code Ca n of Components	ase(s): N/A	/Replacement Acti	vit <u>y 1989</u>			
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed, or Installed	ASME Code Stamped (Yes or No)
	Valve	Yarway Corp.	5492	N/A	2FWE-FCV122	1984	Corrected	Yes
S	tuds, 1"-8	NOVA Machine	N/A	N/A	F955	2003	Installed	No
	Vuts, 1"-8	NOVA Machine	N/A	N/A	_i	2004	Installed	No
Štu	ds, 5/8"- 11	NOVA Machine	N/A	N/A	M796	2004	Installed	No
N	uts, 5/8-11	NOVA Machine	N/A	N/A	K496	2004	Installed	No
7.	Description	of Work Rep	aced the pipe fla	ange studs/nut	s.			
8.	Tests Cond	ucted: Hydros Other [tatic*	ımatic* ☐ N ps	<u>*</u>	•		empt 🛛

9. Remarks No-previous NIS-2 Data Report, Manufacturer's Data Report attached.	
Applicable Manufacturer's Data Reports to be attached 1"-8 Studs PO# 7121440, 1"-8 Nuts PO#47033238, 5/8"-11 Studs PO# 47048563	
5/8"-11 Nuts PO# 47029219	
CERTIFICATE OF COMPLIANCE	-
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASM Code, Section XI.	Ε
Type Code Symbol Stamp N/A	
· · · · · · · · · · · · · · · · · · ·	
Certificate of Authorization No. N/A Expiration Date N/A	
Signed Servic Specin ST Date October 29 , 20 06 Owner or Owner's Designee, Title	_
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors	
and the State or Province of Pennsylvania and employed by HSB CT of	
Hartford, CT have inspected the components described in this	
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{11-(-0.6)}{}$, and state that to the	
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this	
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
Du signing this portificate poither the increases his employee makes any unwants, overcooled as invalid, assessming the	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with	
this inspection.	
Dean S. humily Commissions I. N. PA 2384	
Inspector's Signature Commissions 2, 2, 7, 7, 2, 3, 8, 9 National Board, State, Province, and Endorsements	
Date	

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES - S47959

As Required by the Provisions of the ASME Code, Section III, Div. 1 8.63677

or Valve	CONTRACTOR OF STATES		tiet Size 6° linch (i) Nert. (g) 8d. No. 8
(a) Model No., (b) N Ce Series No. of Type 5302 (ARC)	rtificate Holder's (c) Conedian Serial Registration No. No.	(d) Drawing No. (e) Class 960983~01	(i) Nert. (g)
Series No. or Type 5302(ARC)	Serial Registration No. No.	No. (el Ciess 960983-0) 3	Ed No. 8
5302(ARC)	No.	No. (el Ciess 960983-0) 3	Ed No. 8
5302(ARC)		960983-01	
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Mark No.	Meterial Spec. No.	Manufacturer	Remerks
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stings RE785-1	ASME BA216	OUAKER ALLOY CO.	DISC
E7439-1	GR WCB	ATTER ATTOY OF	BY-PASS
11 11 11 11 11 11 11 11 11 11 11 11 11	ASME SA216 GR: WCB	QUAKER ALLOY CO.	BI-FASS A
	ASHE SA 216	QUAKER ALL IY CO.	BONNET
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		The second control of the second control of the second	CASSELVANCE AND THE
	GRANCE AND A TOP AND A	QUAYER ALLOY GO.	
P4078-3 344	GRANCE AND A TOP AND A		BODY
#4078-3 Set	GRANCE APHR 61716 GRANCE	OUNTER ALLOY CO.	
#4078-3 Set	GR. WCB ABJIZ 63.216 GR. WCB	CUAKOR ALLOY CO.	BODY
P4078-3 344	GRANCS ACHE 61716 GRANCS	GUANGE ALLOY CO.	BODY
R4078-3 set	GRANCS ACHE 61716 GRANCS	GUANCE ALLOY GO.	
P4078-3 set	GR. WCB ASHE 61716 G. WCB	CUNCER ALLOY CO.	
P4078-3 set	GR. MCB ASHE 63216 GR. MCB	CUNCER ALLOY CO.	BODY
R4078-3 set	GR. MCB ASHE 63-216 GR. MCB	GUNGER ALLOY GO.	
R4078-3 set	GRANCE SAPIS	GUNGEN ARLOY GO.	
R4078-3 interest to the second	GRANCE ASHE 61716 GRANCE	CINCA ALLOY. CO.	
P4078-3 set	GRANCE SAPIS	CINCA ALLOY GO.	

⁽¹⁾ for menustry operated valves only.

^{*} Supplemental sheets in form of lists, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this Data Report is included on each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

FORM NPV-1 (Back)

Mark No.	Material Spec. No.		Manufecturer			lemarks	. 43
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ructical of the ASME	CERTIFICATE nents made in this report are of	orrect and	that this pump, o	v. L. Ed	ition		les (
ructical of the ASME nde _SIMMET_197	CERTIFICATE ments made in this report are of Code for Nuclear Power Plant 13	orrect and	that this pump, o	v. L. Ed			les (
ructical of the ASME	CERTIFICATE ments made in this report are of Code for Nuclear Power Plant S, Code Case No CRATICIS	orrect and	that this pump, o	V. L. EG	ition		les (
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nuclicit of the ASME nde SHEME 197 Down d YAPKAY CORP	CERTIFICATE ments made in this report are of Code for Nuclear Power Plant CODE TO CODE Case No	Components	that this pump, o mtz. Section III, Date	7/2 2/2	ition	977 S	
nuclicit of the ASME nde SHEME 197 Down d YAPKAY CORP	CERTIFICATE ments made in this report are of Code for Nuclear Power Plant CODE TO CODE Case No	Components	that this pump, o mits. Section III, Dete	7/2 2/2	tion 1	11/14/	
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rectical of the ASME ndeStremmer197 Down dYAPKAY_CORP IN Contilican SME Contificate of Ac	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE for Nuclear Power Plant CODE TOWN TOWN CERTIFICATE STONE & MERSTER CO	orrect and Compone by 2 to use to	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 27/2 ka (_symbol	ition 1923/8	11/14/	
nucicit of the ASME nde SIMMET 197 Duni d YAPKAY CORP IN Contilicate SME Contificate of Ac	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE TYPE THE TENT TO THE TE	orrect and Compone by 2 to use to	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 27/2 ka (_symbol	ition 1923/8	11/14/ Desi	
nuclicit of the ASME nde _Stratmer_197 (Denni d _YAPWAY_CORP (M Contilicate SME Certificate of Ad in information on file a ensiye's report (Cla	CERTIFICATE ments made in this report are of Code for Nuclear Power Plant S, Code Cees No CRATTON MARGORI STONE & MERSTER COME In Only on the st STONE	orrect and Compone by S to use to ON OF D RECORATE	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
nucicit of the ASME ndeSIMMET	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant Code for Nuclear Power Plant Code Case No	orrect and Compone by S to use to ON OF D OR PORATE MERSON	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
nucicit of the ASME ndeSIMETET	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE TONE TONE NO. W2449 CERTIFICATE STONE MERSTER STONE MERS	orrect and Compone by S to use to ON OF D OR PORATE MERSON	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
nuclicit of the ASME nde _Stramer_197 (Dent) d _YAPKAY_CORP (M Contilicate SME Certificate of Ad in information on file a saystysis report (Cla in specifications card	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE TONE TONE NO. W2449 CERTIFICATE STONE MERSTER STONE MERS	orrect and Compone by S to use to ON OF D OR PORATE MERSON	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
nucicit of the ASME ndeSIMETET	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE TONE TONE TENTSTEE TONE TENT	orrect and Compone by S to use to ON OF D OR PORATE MERSON	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
nucicit of the ASME ndeSIMETET	CERTIFICATE Tents made in this report are of Code for Nuclear Power Plant CODE TO Nuclear Power Plant CODE TO Nuclear Power Plant TOTAL CODE Code No	orrect and Compone by S to use to ON OF D OR PORATE MERSON	that this pump, o inte. Section 81, Diston Dete	iv. I., Ed 2/2 Da ka (_symbol	ition 1923/8	11/14/ Desi	
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the undersigned, holding a valid commission issued by the National Board of Boller and Pressure Vessel Inspectors and the State or Province of PEYMSYTVANTA and employed by ARXWRICKT-BOCTON INSURANCE of NOPWOCE MATCH have inspected the pump, or valve, described in this Data Report on ARX 19 85, and state that so the best of my knowledge and belief, the N Certificate Holder has constructed this pump, or valve, in accordance with the ASME Code, Section III.

By signing this certificate, neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection

Form	No	1937
FUIII	INO.	1937

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY ** As Required by the Provisions of the ASME Code Section XI

1. Owner	F.E.N.O.C		_ Da	te	10	/26/06	
76 South M	Main Street – Akı	ron, OH 44308	Sh	eet	1	of	2
. Plant	Beaver Valley (Power Station (B\	<u>/PS)</u> Un	it No		2	
	Shippingport, F	PA 15077	·	Repair/Replaceme	20013 ent Organiza	5817 tion P.O. No., Job N	lo., etc.
. Work Perfo	rmed By <u>FEN</u>	OC Maintenance	Ту	pe Code Symb	ol Stam	p	N/A
	Shippingport, F	PA 15077	Au	thorization No.		N/A	
	(ADDRESS)		Ex	piration Date		u .	
. Identificatio	n of System _	Primary Compo	onent Cooling	(Class 3)			
(b) Applicable (c) Applicable		• •			<u>√A</u> Code	Case	
· Identineatio							
						Corrected, Removed,	ASME Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	or Installed	Stamped (Yes or No
Valve	Walworth	D-66475	1736	2CCP-328	1978	Corrected	Yes
Studs 5/8"-11	NOVA Machine	N/A	N/A	M455	2004	Installed	No
Nuts 5/8"-11	NOVA	N/A	N/A	P914	2005	Installed	No
A. Atothi	Machine	Martin State Communication of the Communication o					
Nuts 5/8"-11	NOVA Machine	N/A	N/A	M797	2004	Installed	No
· · · · · · · · · · · · · · · · · · ·	1		<u> </u>			<u></u>	1
. Description	of Work _Re	placed body/body	studs and nut	s.			
'. Description	of Work Re	placed body/body	studs and nut	s.			

	Applicable Manufacturer's Data Reports to be attached 5/8"-11 Studs PO# 47039220, 5/8"-11 Nuts PO# 47082958 & 47048563.
	5/0 17 Stags 1 SW 47 000220, 5/0 11 14d/3 1 SW 47 002500 & 17 0 15000.
	*
	CERTIFICATE OF COMPLIANCE
	certify that the statements made in the report are correct and that this conforms to the requirements of the ASME e, Section XI.
Гуре	Code Symbol Stamp <u>N/A</u>
Cert	ficate of Authorization No. N/A Expiration Date N/A
Sign	ed Seven Special Date October 29, 20 06 Owner or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
i, t	ne undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
an	the State or Province of Pennsylvania and employed by HSB CT of
_	Hartford, CT have inspected the components described in this
	mer's Report during the period $\frac{4-27-05}{}$ to $\frac{1}{1-0}$ and state that to the
	st of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this mer's Report in accordance with the requirements of the ASME Code, Section XI.
Ov	The S Report in accordance with the requirements of the ASINC Code, Section A.
Ву	signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
	aminations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
sh	all be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
thi	inspection.
	ROUSE STARTER
	Inspector & Agnature Commissions NB 9428 ANTB PA 2384 National Board, State, Province, and Endorsements
D	ite

FORM NPV-1 MANUFACTURERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES"

(As Required by the Provisions of the ASME Code, Section III, Div. 1)

Manufactured by Wall	(Name and Address of Manufacturer) uesue Light Company, Ship	pingport, PA.	
Mandracrei advot	IName and Address of Purchaser or Owner		
Location of Installation	Beaver Valley Power Stati	· · · · · · · · · · · · · · · · · · ·	
Puma c. ValveVal	ve Nominal	Inlet Size	Judet Siza8"
		(inch)	
	(b) Manufacturers' (c) Canadian		
Series No.	Serial Registration	(d) Drawing .	- (f) Nacl. (g) Year
cr Type	No. No.	No. (e) Class	Bd. No. Built
(1) 5202 WE HF	D-66475 N/A	SK 1956-19D 3	1736 1978
(3)			
(4)			
(5)			
(6)		VAL	٧£
(7)			
(B)		<u> 1664</u>	1/5
(9)		250141	
(1C)		SERIAI	<u>. NO.</u>
ar lar les r		•	
Oil/Steam/Wat	Etal description of service for wi		
Design Conditions Cold Working Pressure _ Pressure Retaining Fisces	Pressure) pel (l'emperature) 275 psi at 100°F.	字 or Valve Pressure Clas	ANSI 150 (1
Cold Worlding Pressure _	Propagation (Pemperature) 275 psi at 100°F.	*F or Valve Pressure Clas Manufacturer	ANSI 150 (1
Cold Worlding Pressure Pressure Retaining Fisces	(Prossure) (Temperature) 275 psi at 100°F.	T	
Cold Working Pressure Pressure Retaining Fisces Mark No. (2) Castings	Processors (Temperature) 275 psi at 190°F. Material Spec. No.	Memufacturer	Remarks
Cold Working Pressure Pressure Retaining Fiscas Mark No. (2) Castings y = G183 P2	Processors (Temperature) 275 psi at 190°F. Material Spec. No. SA 216, WCB	Manufacturer Walworth Co.	Remarks Seal Welded So
Cold Working Pressure Pressure Retaining Fisces Mark No. (2) Castings y = G183 P2 t = G381 P4	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fiscas Mark No. (2) Castings y = G183 P2	Processors (Temperature) 275 psi at 190°F. Material Spec. No. SA 216, WCB	Manufacturer Walworth Co.	Remarks Seal Welded So
Cold Working Pressure Pressure Retaining Fisces Mark No. (2) Castings y = G183 P2 t = G381 P4	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisces Mark No. (2) Castings y = G183 P2 t = G381 P4	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co.	Remarks Seal Welded So CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Castings y = G183 P2 t = G181 P4 = G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisces Mark No. (2) Castings y = G183 P2 t = G381 P4	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Castings y = G183 P2 t = G181 P4 = G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisca: Mark No. (2) Castings y = G183 P2 t = G381 P4 = G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backseat
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backseat
Cold Working Pressure Pressure Retaining Fisces: Mark No. (a) Castings y = G183 P2 t = G381 P4 - G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backseat
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backsea
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backseat CoCrA Faced
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co.	Remarks Seal Welded Se CoCrA Backseat CoCrA Faced
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co. Daysesna Light Completed Valley Unit A	Seal Welded Se CoCrA Backseat CoCrA Faced
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors (Temperature) 275 psi at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co. Walworth Co. Doggana Light Com Co. Valley Unit A	Remarks Seal Welded Se CoCrA Backseat CoCrA Faced
Cold Working Pressure Pressure Retaining Fisces: Mark No. (2) Captings 9 — G183 P2 C — G181 P4 — G162 P3	Processors post at 100°F. Material Spec. No. SA 216, WCB SA 216, WCB SA 216, WCB	Manufacturer Walworth Co. Walworth Co. Walworth Co. Walworth Co. Doggana Light Com Co. Valley Unit A	Remarks Seal Welded Se CoCrA Backseat CoCrA Faced
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⁽¹⁾ for menually operated valves only,

^{*}Supplemental shapes in form of liets, sketches or drawings may be used provided (1) size is 8-1/2" x 11", (2) information in items 1, 2 and 5 on this data report is included on each shape, and (3) each shape is numbered and number of shapes is respected as two of this form

FORM NPV-1 (9ack)

(c) Solding 1 - V384 (R47) - B6508 , (WO)			
- 86508 (GO)			
	SA 193 37	<u> </u>	
	SA 194 2H	R. E. C.	
- <u>B6505 (MC)</u>	S4 194, 2H	R. E. C.	····
56508_(OI)	SA 194. 2H	R. E. C.	
	-		
	Transfer Carrier	r-127Y	
(d) Coher Parts	Prover Valley 73	No. 2 12763 -	
	p soyer Valley 73	category.	:
	7. O. No. 40	251-21/2 In- Catagory, 3	
	Carran Sige.		
	COUDS	m)	
	Walvarth Compa	15601	
•	Granchurg, IIA		
			
cardify that the statement struction of the ASME Conda June 30. 10 (Deta)	DAGY	and that this pump, or valve, co	on 1971 74/78
e cardify that the statement restruction of the ASME Codenda June 30. If (Date) (Date) (Date) (Manufactur ASME Cordificate of Authorises analysis report (Classission specifications cardifer State PA	CERTIFICATE OF Conts made in this report are correct code for Nuclear Fower Plant Company. Code Case Na. 10 CERTIFICATION Contraction No. 1951 to CERTIFICATION Contraction of the contraction of the contraction No. 1951 to CERTIFICATION Contraction of the co	that this pump, or valve, components. Section III, Div. I., Edition 172 by	on 1971
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cardify that the scattmen struction of the ASME Colored June 30. 10 (Orto) med Walworth Commod Walworth Commod ASME Cordificate of Authorists information on file at east analysis report (Classist specifications cardifated by (1888) analysis cardifated by (1888) analysis cardifated by (1888) analysis cardifated by (1888)	CERTIFICATE OF Conts made in this report are correct code for Nuclear Power Plans Company. Code Case Na. 10 CERTIFICATION Contration No. 1951 to CERTIFICATION Contration No. 1951 to CERTIFICATION Contration on file at N/A d by (1) C. O. Richard Rog, No. 016297E	that this pump, or valve, components. Section III, Div. I., Edition 172 by	G. J. M. Hill expires 12/9/80 (Cate)

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TO THE TOTAL OF THE STATE OF TH

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Form	No.	1939

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

Owner	wner F.E.N.O.C			·	10/18/06			
76 South Main Street – Akron, OH 44308 (ADDRESS)			_ She	et1	o	of	1	
Plant	Beaver Valley Po	ower Station (BV	<u>(PS)</u> Unit	No		2		
	Shippingport, PA (ADDRESS)	15077		Repair/Replaceme	200157		lo., etc.	
Work Perfo	rmed By <u>FENO</u>	C Valve Team (NAME)	Туре	e Code Symbo	l Stamp	1	N/A	
·	Shippingport, PA	15077	Auth	orization No.		N/A		
	(ADDRESS)		Expi	iration Date				
Identificatio	n of System	Steam Vent (Cl	ass 2)	•				
	e Section XI Code Ca	se(s): N/A			·•		•	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Buik	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No	
Check Valve	Enertech	11354	N/A	2SVS-82	2005	Corrected	Yes	
Studs	Nova Machine	N/A	N/A	R776	2005	Installed	No	
Nuts	Nova Machine	N/A	Ń/A	P915	2005	Installed	No	
				d nuts.				

*Record test pressure and temperature

CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A Sertificate of Authorization No. N/A Expiration Date N/A		Applicable Manufacture's Data Reports to be attached PO# 47082958. Code Data Report for valve attache	ed to 1784.
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. per Code Symbol Stamp N/A Prifficate of Authorization No. N/A Expiration Date N/A Grand Authorization No. N/A Expiration Date November 4, 20 06 CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Doner's Report during the period 4.2.2.0.5 to 1(->-0.6), and state that to the doest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Doner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. C. RAND RAND RAND RAND RAND RAND RAND RAND			
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certificate of Authorization No. N/A Expiration Date N/A Serificate of Authorization No. N/A Expiration Date N/A Certificate of November 4 20 06 Certificate Of Inservice Inspection And the State or Province of Pennsylvania and employed by HSB CT of Hardford, CT have inspected the components described in this Downer's Report during the period Y-27-05 to //-> Owner's Report during the period Y-27-05 to //-> Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T, J, N, N, A, B, Y, N, A, B, Y,	CER	TIFICATE OF COMPLIANCE	
certificate of Authorization No. N/A Expiration Date N/A gned Service Special ST Date November 4 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of have inspected the components described in this Downer's Report during the period Y-27-05 to /(1-2-06), and state that to the pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. C. P. A. 3. P.4.			
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Owner's Report during the period $4-27-05$ to $11-2-06$, and state that to the pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T , V , P	and the State or Province of Pennsylvania	and employed by HSB CT of	
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examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions L. L. P. 2.3.84	Owner's Report in accordance with the requirement	ents of the ASME Code, Section XI.	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions L. L. P. 2.3.84	Dy cianing this cortificate neither the inspector pe	or his ampleyer makes any warranty, expressed or implied, cons	orning the
chall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Land Land Commissions I, L, P42384			
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Dean S. Zonal Commissions I, N. PA2384			·
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Commodors		_	
Inspector's Signature National Board, State, Province, and Endorsements	dean S. lynd	Commodoris = // 1	
	tnspe@or's Signature	National Board, State, Province, and Endor	rsements
	Date //-?) <u>0 6</u>	

Form No.	1942	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY " As Required by the Provisions of the ASME Code Section XI

								
1. Owner	F.E.N.O.C		[Date _		10/2	5/06	
76 South M	Main Street - Akro	on, OH 44308	_	Sheet ₋	1_	of	2	
2. Plant	Beaver Valley P	ower Station (B\	<u>/PS)</u> (Jnit No.		2	<u> </u>	
	Shippingport, PA	15077	· .			000958		
3. Work Perfo	(ADDRESS) rmed By <u>FENO</u>	C Maintenance		·	e Symbol	·	P.O. No., Job No.,	
	Shippingport, PA	\ 15077		Authoriza	tion No		N/A	····
	(ADDRESS)		E	Expiration	Date _			
 (a) Applicable (b) Applicable (c) Applicable 	n of System Construction Code e Edition of Section X e Section XI Code Ca n of Components	ASME III (I Utilized for Repair) use(s): N/A	<u>1974</u> Editio	n, <u></u> Add		Code Ca	use	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Other entification	Year Built	Corrected, Removed. or Installed	ASME Code Stamped (Yes or No)
Fuel Oil Storage Tank	Nat'l Annealing Box	6469	2213	2EG	F-TK21A	1978	Corrected	Yes
Studs	Nova Machine	N/A	N/A	-	P408	2004	Installed	No
Nuts	Nova Machine	N/A	N/A		A201	2004	Installed	No
. N		Carterina de Carterina	egy Maken B		·	- V - 24 K		
			<u> </u>					
	of Work Repl	tatic* ☐ Pneu		Nominal	. •			mpt ⊠
	*Record tes	t pressure and temperature	•					

1 1/4"-8 Studs PO # 45137621	Applicable Manufacturer's Data Reports to be attached 1 1/4"-8 Nuts PO # 47030430
	CERTIFICATE OF COMPLIANCE
I certify that the statements made in the ode, Section XI.	e report are correct and that this conforms to the requirements of the ASME
oue, Section Al.	
ype Code Symbol Stamp N/A	
ertificate of Authorization No. N/A	Expiration DateN/A
$\mathcal{O}(\mathcal{A})$	
igned AUGE Owner or Owner's Designee	Seaver Specialist Date November 4 , 20 06
- Owner of Owner & Designee	, Tue
CER	RTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission	on issued by the National Board of Boiler and Pressure Vessel Inspectors
	<u>ia</u> and employed by <u>HSB CT</u> of
	have inspected the components described in this
Owner's Report during the period	$\frac{4 \cdot 17 - 05}{10 \cdot 10}$ to $\frac{10 - 12 - 06}{10}$, and state that to the
Dest or my knowledge and belier, the Owner I Owner's Report in accordance with the requir	has performed examinations and taken corrective measures described in this
omior o resport in accordance with the requi	rainals of the Asial Code, Section A.
By signing this certificate neither the inspecto	or nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures descri	ibed in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any persona	l injury or property damage or a loss of any kind arising from or connected with
this inspection.	
	?
dear I has I	Commissions III, PALIFY
Inspector's Signature	Commissions 1/N/ / 7 2014 National Board, State, Province, and Endorsements
•	
	, 20 <u>0 6</u>

Panufactured by - National Annealing Box Company, Hashington, PA

Tunufactured for - Duquesne Light Co., Beaver Valley Unit 2, Shippingport, PA

Type - Horiz. Vessel #6469 Natl.Bd. #2213 Yr. Built - 1978

Applicable ASSIE Code: Section III, Edition - 1974, Class - 3.

Nozzles:					A. O		
Purpose (inlet,Outlet, Drain)		Dia.or Size	Туре	Material	Tk.	Reinforcement Material	How Attached
Pump Recirc.	2	3/4"	Butt.Wld	SA106Gr.B	Sch.160	Integral	Welded
Return	1	1"	Butt.Wld	SA106Gr.B	Sch.80	Integral	Welded
F111	1	2" -	Butt.Wld	SA106Gr.B	Sch.80	Integral	Welded
Overflow	1	3"	Butt.Wld	\$A106Gr.B	Sch.80	SA516 Gr.70	Welded
evel Instr.	2	4"."	Butt Wld	SA106Gr.B	Sch.80	SA516 Gr.70	Welded
Pump	2	14"	Eutt.Wld	SA106Gr.B	Sch.80	SA516 Gr.70	Welded

Form No	1943	
L-CHILL INCL	194.5	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1. Owner	F.E.N.O.C		Da	nto.	10/	30/06			
i. Owner	(NAME)				10/	30/00			
76 South M	lain Street – Akroi (ADDRESS)	n, OH 44308	Sh	eet	<u> </u>	of	1		
2. Plant	Beaver Valley Po	wer Station (BVI	<u>PS)</u> Ur	Unit No. 2					
	Shippingport, PA (ADDRESS)	15077		Repair/Replaceme	200148 ent Organizati		lo., etc.		
3. Work Perfor	med By <u>FENOC</u>	Maintenance (NAME)	Ту	pe Code Symbo	ol Stamp		N/A		
	Shippingport, PA	15077	Αι	thorization No.		N/A			
(ADORESS)									
									
i. identificatio	n of System	Service water (Class 3)						
6. Identification	n of Components			Γ	<u> T</u>	Corrected.	ASME		
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed. or Installed	Code Stamped (Yes or No		
Gate Valve	Walworth Co.	A1104	N/A	2SWS-1231	1978	Corrected	Yes		
Nuts	Nova Machine	N/A	N/A	F829	N/A	Installed	No		
Nuts	Nova Machine	N/A	N/A	J521	N/A	Installed	No		
Studs	Nova Machine	N/A	N/A	K863	N/A	Installed	No		
7. Description	of Work Repla	ced the inlet/out	let flange stu	ds and nuts.	;				
			<u>.</u>						
8. Tests Cond	ucted: Hydrosta Other	atic*	,	•	_		empt 🛚		

. Remarks Previous NIS-2 Data Report No: 1444. Code Data Report attached to 1444. Applicable Manufacturer's Data Reports to be attached	
%" Nuts PO# 45104249, 7120115, 3/" Studs PO# 47059254	
CERTIFICATE OF COMPLIANCE	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ode, Section XI.	ASME
ype Code Symbol Stamp N/A	
tertificate of Authorization No. N/A Expiration Date N/A	
igned Swier Spain to Date November 4 , 20	_06
CERTIFICATE OF INSERVICE INSPECTION	
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of	
Hartford, CT have inspected the components described in this	
Owner's Report during the period $4-27-05$ to $11-7-06$, and state that to the	
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this	
Owner's Report in accordance with the requirements of the ASME Code, Section XI.	
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the	₽.
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employee	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected will	th
this inspection.	
Dean S. Zynik Commissions I, J. PAL384	
Inspector Signature National Board, State, Province, and Endorsements	
Date	
Date	

Form	No	1945
1 01111	110.	1370

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

									
1. Ow	ner <u>l</u>	F.E.N.O.C		[Date _	·	10/3	0/06	
<u>76</u>	South Mair	Street - Akro	on, OH 44308		Sheet _	1	of	2	
2. Plar	nt <u>Be</u>	eaver Valley Pe	ower Station (B)	/PS) (Jnit No.			2	
	Q.	nippingport, PA	15077	٠		•	2001527	24	
	<u>SI</u>	(ADDRESS)	(13077		Rep			7 P.O. No., Job No.,	etc.
3. Wo	rk Performe	ed By <u>FENO</u>	C Maintenance		Гуре Сос	e Symbol	Stamp	N/	Α
	SH	nippingport, PA	, ,		Authoriza	tion No		N/A	
	<u></u>	(ADDRESS)	13071			_			·
				ŧ	Expiration	Date _	 		
4. Ider	ntification o	f System	Chemical and	Volume Conf	rol Syste	m (Class	2)	· · · · · · · · · · · · · · · · · · ·	
5. (a) A	Applicable Co	nstruction Code	ASME III	1971 Editio	n. S72 A	ddenda.		N/A Code Ca	se
			Utilized for Repair						
	• •	ection XI Code Ca	•	rtopiaoomontr	.out) <u>. 100</u>	•			
(0)	Aphicabic of	couon XI code oa	30(3). TWA						
6. Ider	ntification o	f Components							
Nan Comp	nc of	Name of Manufacturer	Manufacturer Serial No.	National Board No.		Other entification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
	lve	Fisher Controls	5909868	5183	2	CHS- CV122	1979	Corrected	Yes
Pl	ug	Fisher Controls	BA4585-1	N/A	HT	# 727023	2006	Installed	Yes
	e Treftely and My	a seems de	State of the state						
									
									1
	<u> </u>		<u> </u>	<u> </u>			<u> </u>	<u></u>	<u></u>
7. Des	cription of	Work <u>Repl</u>	aced Valve Pluc	1				·	
							 -		
						•		•	
8. Tes	ts Conduct	_	atic* Pneu						npt 🛛
		Other [Pressure	F)SI 16	st Temp.		~~r	
		*Record test	pressure and temperature	,					

Applicable Manufacturer's Data Reports to be Plug and Stem Assembly PO# 45181680	e attached
CERTIFICATE OF COMPLIANO	CE
•	
I certify that the statements made in the report are correct and that this code, Section XI.	conforms to the requirements of the ASM
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expiration Date	N/A
Signed Seujer Spein ist Date	October 30 , 20 Ok
CERTIFICATE OF INSERVICE INSPEC	CTION
I, the undersigned, holding a valid commission issued by the National Board of Boi and the State or Province of Pennsylvania and employed by HSBCT Hartford, CT have inspected the components Owner's Report during the period Y-27-05 to best of my knowledge and belief, the Owner has performed examinations and take Owner's Report in accordance with the requirements of the ASME Code, Section >	of s described in this //-/-0 6, and state that to the en corrective measures described in this
By signing this certificate neither the inspector nor his employer makes any warrant examinations and corrective measures described in this Owner's Report. Furthern shall be liable in any manner for any personal injury or property damage or a loss of this inspection. Commissions B. Namen Signature	nore, neither the inspector nor his employer
Date	

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III Not to exceed One Day's Production

Pg. 1 of 1

(when applicable)

. Manufactured and certified by	PISHER CONTROLS INT	L LLC, 205 SOUTH CENTER (name and addr	ess of NPT Certificate H		
. Manufactured for	First Energy Corp., PO Box	6100 Johnston PA 15007			
Withinitactured for	This energy corp., 10 box		d address of purchaser)		
		5.000111115	1.6077		
Location of installation	Beaver Valley Nuclear Plan	t, Route 168, Shippingport, PA	ame and address)		·
		(110	anc and address;		
. Type		75 KSI	N/A		2006
(drawing	no.) (mat'l. spec. n	o.) (tensile strength) (CRN)	(year built)
ASME Code, Section III:	1971	Summer 1972	22		N/A
	(edition)	(addenda date)	(class)	(C	ode Case no.)
Fabricated in accordance with Co	net Spec (Div Trophy)	N/A Revision	N/A	Date	N/A
Tabilitated in accordance with Co		(no.)	1471		1878
		, . ,			
	BPVC Sec III 1971 Edition, Sum				
Other: ASME	BPVC Sec III 1998 Edition, 1991	Addenda, Class 2			
Nom. thickness (in.) N/A	Min. design thickness (in.)	N/A Dia. ID (ft &in.)	N/A Le	ength overall (ft & in.)	N/A
		a to the first to the			
When applicable, Certificate Hold	lers' Data Reports are attached for	each item of this report:			
Part or Appurtenance	- Heat Number		Part or Appurtenance	Uent	Number
	- rical rumoci	1 1			
Serial Number	}	} }	Serial Number	rical	. I tamou
			• • •	rical	
(I) BA4585-I	727023	(26)	• • •	rical	
(1) BA4585-1 (2) BA4585-2		(27)	Serial Number	Treat	
(1) BA4585-1 (2) BA4585-2 (3)	727023 727023	(27) (28) (29)	Serial Number	rical	
(1) BA4585-1 (2) BA4585-2	727023 727023	(27) (28) (29) (29)	Serial Number		
(1) BA4585-1 (2) BA4585-2 (3) (4) (5) (6)	727023 727023	(27) (28) (29) (30) (31)	Serial Number		· · · · · · · · · · · · · · · · · · ·
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(1) BA4585-1 (2) BA4585-2 (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	727023 727023	(27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46)	Serial Number		
(1) BA4585-1 (2) BA4585-2 (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	727023 727023	(27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)	Serial Number		
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(1) BA4585-1 (2) BA4585-2 (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21)	727023 727023	(27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47)	Serial Number		

^{*}Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (back)

Mfr. Serial No. BA4585-1, -2

CERTIFICATION OF DESIGN						
Design specifications certified by		P.E. State	23938- E	Reg. no.	PA	
	(when applicable)					
Design report* certified by N/	Α	P.E. State	N/A	Reg. no.	N/A	
	(when applicable)					
	CERTIFICATE O	F SHOP COM	PLIANCE			
We certify that the statements made is conforms to the rules of construction	n this report are correct and that this (these)	Plug/Ste	<u>m</u>			
Conforms to the rules of construction	of the ASME Code, Section III.					
NPT Certificate of Authorization No.	1930	Expires _		10-27	-2007	
Date 6/14/06 Name	FISHER CONTROLS INT'L LLC			Signed	nda Ward	
	(NPT Certificate Holder)				(authorized representative)	
						
	CERTIFICATE (OF SHOP INSF	PECTION			
I the undersigned holding a valid co	mmission issued by the National Board of Bo	niler and Precen	re Vessel Inspectors	and the state or	Province of Iowa	
	n Boiler of CT	Olea and Liczza	te vessei inspectors	and the state of	TOVILLEE OF TOWA	
of Hartford, CT	have inspected these items described in the			14-06	and state that to the	
best of my knowledge and belief, the been authorized for stamping on the	Certificate Holder has fabricated these parts late shown above.	or appurtenance	s in accordance wit	h the ASME Coo	le, Section III. Each part listed has	
	e inspector nor his employer makes any warr or his employer shall be liable in any manner					
Date 6-14-06 Signed	Kat Calfs	Commissions		2 IA.	•	
	(Authorized Inspector)		(Nat'l.)	Bd. (incl. endors	ements) state or prov. and no.)	

36-6.doc

Form	No	1946
1 (1)	110.	1070

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY ** As Required by the Provisions of the ASME Code Section XI

1. Owner	F.E.N.O.C	_ D	ate	10/2	3/06			
76 South M	Main Street – Akr (ADDRESS)	on, OH 44308	_ s	heet <u>1</u>	of	2		
2. Plant	Beaver Valley F	ower Station (B)	VPS) U	nit No.		2		
* .	Shippingport, P. (ADDRESS)	A 15077		200166575 Repair/Replacement Organization P.O. No., Job No., etc.				
3. Work Perfor	rmed By <u>FENC</u>	OC Maintenance (NAME)	Т	ype Code Symbol	Stamp	N//	Α	
	Shippingport, P.	A 15077	A	uthorization No		N/A		
	(ADDRESS)		· E	xpiration Date _		æ		
4 11 110 11			,		۵)			
4. Identification	n of System _	Chemical and	Volume Contr	ol System (Class	2)			
5. (a) Applicable	Construction Code	ASME III	<u>1971</u> Edition	, <u>W72</u> Addenda, <u>N/</u>	A Code C	ase		
(b) Applicable	e Edition of Section	KI Utilized for Repair	/Replacement Ad	tivity <u> 1989</u>				
(c) Applicable	e Section XI Code C	ase(s): N/A						
6. Identification	n of Components	5						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Relief Valve	Crosby Valve	N56903-00-0015	191	2CHS-RV203	1976	Corrected	Yes	
Studs, 5/8"-11	Nova Machine	N/A	N/A	105C	2006	Installed	No	
Nuts, 5/8"-11	Nova Machine	N/A	N/A	526895-QJE	2000	Installed	No	
i 54 11545	W.C.							
	1		1		1	<u> </u>	I	
7. Description	of Work Rep	laced the inlet fla	ange studs ar	d nuts				
8. Tests Cond	ucted: Hydros	tatic* ☐ Pne∪	umatic* 📗 1	lominal Operating	Pressu	re 🗌 Exen	npt 🛛	
	Other	Pressure	p	si Test Temp.		°F		
	•0							

5/8"-11	No-previous NIS-2 Data Report. Manufacturer's Data Report attached Applicable Manufacturer's Data Reports to be attached Studs PO# 45183672 5/8"-11 Nuts PO# D149199-282
	·
	CERTIFICATE OF COMPLIANCE
I certify tha de, Section	t the statements made in the report are correct and that this conforms to the requirements of the ASM XI.
pe Code Sy	rmbol Stamp N/A
rtificate of A	Authorization No. N/A Expiration Date N/A
ned <u>J</u>	Owner or Owner's Designee, Title Sexis - Specia 157 Date November 4 , 20 06
	CERTIFICATE OF INSERVICE INSPECTION
the undersis	aned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
-	or Province of Pennsylvania and employed by HSB CT of
	Hartford, CT have inspected the components described in this
	ort during the period $\frac{4-27-05}{}$ to $\frac{11-2-06}{}$ and state that to the
_	owledge and belief, the Owner has performed examinations and taken corrective measures described in this ort in accordance with the requirements of the ASME Code, Section XI.
	s certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
į	and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
í	in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
is inspection	
,	
Near	Commissions NB9428ANIB PA2384
	Instructor's Signature National Board, State, Province, and Endorsements

Chopay

CROSSY VALVE & SAGE COMPANY-

LOSS IN 1104 SCLELLANC PRICLA RETITL ANTICES

46.44C

BATA REPCRY Reday and Salny Battel Valgos

28-33- 18-33- Ordinates	Taire & Cago Company, -) Fordy (pass and actions The No Tolling Contract Date) The Code Electric Corp The Note of Address The Code Address The Co	/30/73 Exciensi Sourd No. 191
Decement	shi Co., Seaver Talley Proces Sta	cion, Besver Talley Unic 42
l (walm of fact _ Els	ilizati. letver femir, Pemayl	varia
Tales to-eder 15-a _ L"	-5:17 1-1 Serial So \$36903-30-0015	Drawing No CS-C-56901 Pay
Ties Sel	file from Actions bet	Pipe Size fales Outles
Sel finese 1712		Acted Temperature
Blacont Capet 4:5?	7 GP: Valor . 10 % Overpresen	re Elevisore reach 10 of S.P.
Richardson Tool (25/3) k	Set 950 Complete	23sec ÷25
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Chw	tion 1971 Addenda Date Vinte	
Chw		
Charles Caracas a P	Lion_1971,Addenda DateVicto weeps Lemma Compania Soul Na	Case Bo
Chw	tion_1971,Addenda DateVinte	Microsi Specification Including Type of Grain ASTM-A351-72 Gr. CFSM
Charles Carlos a P	Lion_1971,Addenda DateVicto weeps Lemma Compania Soul Na	Internal Specification Including Type of Grade ASTM-A351-72 Gr. CFSM ASM-SA351 Gr. CFSM
Charles Carles of Pr	t Lon 1971 Addenda Date Linto wrene Remang Components Bornt No. Montacoven	Microsi Specification Including Type of Grain ASTM-A351-72 Gr. CFSM
Char I il i	Lion 1971 Addenda Date Linto Wrene Remang Components Borni No. Montaires year	Material Speedscation Including Type of Grade ASTM-A351-72 Gr. CFSM ASM-SA351 Gr. CFSM ASM-A216-70 Gr. AC3
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Chas ? !!! Freedor Cosistance of Pr Colorupt Body Sensor Sensor Sensor	Class 1971 Addends Date Vinte Companie Both pa Moddewon R90450-35-00-1 R90452-35-00-15	paternal Specification pacificing Type of Grain ASTM-A351-72 Gr. CFSM ASM-SA351 Gr. CFSM ASM-SA216-70 Gr. MC3 ASME-SA216 Gr. NC3
Pressore Containing of Proceeds Containing of Procedures Containing of Procedures Containing of Procedures Containing Con	South No. 1971 Addenda Date Vinto South No. 1902-50-35-00-15 1902-52-35-00-15	### - 514.79 ASY - 514.79 ASY - 514.79 ASY - 514.79 ASY - 514.79 ASY - 514.79 ASY - 514.79
Character Containing of Principles Containing Contai	Sout No. Maria 1971 Addenda Date Minto Bond No. Maria 20-35-00-1 Maria 20-35-00-15 Maria 20-21-00-15	######################################
Character Constanting of Principles Language	Some Both Ba Marker Both Barrier Both Ba Mondater Barrier Barr	Material Specification Material Specification Material Specification Material Specification Material Specification Material Specification ASTE-A351-72 Gr. CFSN ASTE-SA351-70 Gr. 203 ASTE-SA216 Gr. W03 ASTE-SA216 Gr. W03 ASTE-SA217 Type 316 ASTE-SA277 Type 316
Character Containing of Principles Containing Contai	Sout No. Maria 1971 Addenda Date Minto Bond No. Maria 20-35-00-1 Maria 20-35-00-15 Maria 20-21-00-15	Material Specification Specificing Type of Grade ASTY-A351-72 Gr. CFSY ASTY-SA351 Gr. CFSY ASTY-SA216-70 Gr. 203 ASTY-SA216 Gr. 203 ASTY-SA216 Gr. 203 ASTY-SA216 Gr. 203 ASTY-SA2179 Type 116 ASTY-SA279 Type 116

(V)

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			Including Tape of Grace
4.4		12-2-00-C032	ASTY-A419 Gr. 460
••••			
			ASTY-A: 1:70 OF. 640
d5085 3634		46.14 (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	ASIX-Alvi-: ur. Bo
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10.4			
Let along the State of			
eonsj L	11 124 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	t this report are correct. The CTOSTY Valve & Gage (C. B. OK Alama QA Manager
cond, w	is the statement water is	e this report are connect. The Crosby Valve & Gaze (Menulactures	QA Managet
const to	11 114 12 12 17 200 11 219 1278 64	e this report are conect. The Crosby Valve & Gaze (Menulacturer	QA Managet
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Form No	10/17

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

Owner F.E.N.O.C			_ Da	te	11/1	0/06	
76 South Main Street – Akron, OH 44308 (ADDRESS)			_ Sh	eet	<u>1</u> of	f	1
Plant Beaver Valley Power Station (BVPS)			<u>(PS)</u> Un	it No.		2 ·	·
	Shippingport, PA	A 15077				0166403	
· ·	(ADDRESS)	* . · · ·	r en en en en en en en en en en en en en	Repair/Replaceme	ent Organization	P.O. No., Job N	lo., etc.
Work Perfo	rmed By <u>BVPS</u>		Т	pe Code Symbo	ol Stamp	1	V/A
	Shippingport, PA	(NAME) N 15077	Δ.,	thorization No.		N/A	
	(ADDRESS)					4	
			EX	piration Date			
Identificatio	n of System	Reactor Coolar	t (Class 1)			· · · · · · · · · · · · · · · · · · ·	
Identificatio	n of Components	·	<u> </u>		T	Corrected.	ASME Code
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	or Installed	Stamped (Yes or N
elief Valve	Crosby Valve	N56963-000-008	N/A	2RCS-RV551E	1976	Removed	Yes
elief Valve	Crosby Valve	N56963-01-0010	N/A	2RCS-RV551E	3 1980	Installed	Yes
WEAR TO STATE	en en en en en en en en en en en en en e	gradina di Santa di S					
<u> </u>						13.00	N
······································	ļ			<u> </u>			<u> </u>
	of Work Repla	aced valve with s	spare for testin	g purposes, an	d four inle	et studs.	
Description							
Description			•				

<u> </u>	5, and 009. Replacement 1-3/8" Studs: P.O. 104336-195, Ht. #E382.
	N. Committee of the Com
	CERTIFICATE OF COMPLIANCE
I certify that the statements made in de, Section XI.	n the report are correct and that this conforms to the requirements of the ASME
pe Code Symbol Stamp N/A	
ertificate of Authorization No. N	I/A Expiration DateN/A
00	
gned Owner or Owner's Desi	Savior Spain Tate November 20 , 20 06
	CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION
	CERTIFICATE OF INSERVICE INSPECTION ission issued by the National Board of Boiler and Pressure Vessel Inspectors
, the undersigned, holding a valid commi	
, the undersigned, holding a valid commi and the State or Province of <u>Pennsyl</u> Hartford, CT	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania
, the undersigned, holding a valid commi and the State or Province of <u>Pennsyl</u> Hartford, CT	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania
, the undersigned, holding a valid commi and the State or Province of <u>Pennsyl</u> <u>Hartford, CT</u> Owner's Report during the period	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania
, the undersigned, holding a valid commi and the State or Province of <u>Pennsyl</u> <u>Hartford, CT</u> Dwner's Report during the period best of my knowledge and belief, the Owr	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania and employed by HSB CT of
the undersigned, holding a valid comminand the State or Province of Pennsyle Hartford, CT Dwner's Report during the period best of my knowledge and belief, the Own Dwner's Report in accordance with the reserved.	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania
the undersigned, holding a valid commiand the State or Province of Pennsyl Hartford, CT Dwner's Report during the period best of my knowledge and belief, the Own Dwner's Report in accordance with the responsion of the period best of my knowledge and belief.	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania and employed by HSB CT of
the undersigned, holding a valid commit and the State or Province of Pennsyl Hartford, CT Owner's Report during the period best of my knowledge and belief, the Own Owner's Report in accordance with the results as the period by signing this certificate neither the inspectaminations and corrective measures designed.	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania and employed by HSB CT of
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the undersigned, holding a valid commit and the State or Province of Pennsyl Hartford, CT Owner's Report during the period best of my knowledge and belief, the Own Owner's Report in accordance with the research state of the committee of the co	ission issued by the National Board of Boiler and Pressure Vessel Inspectors Vania

CROSBY

COMPANY ACEZIENE CROS.BY

FORM NV-1 FOR SAFETY AND SAFETY RELIEF VALVES
As required by the Provisions of the ASME Code Rules

9.0.-440

	DA	TA R	EPOR	l T	
Salety	and	Safet	y Rel	ial	Valves

	Name and Address	
HB-86-BP Model No Order No N83	2804Contract Date 5	/24/78 National Board No
Alabama Power Manufactured For Birmingham, A	Company, 600 North 18th	St.
. Manufactured For Birmingham, A.	labama 35291	Order No FNP2-765
	ame and Address	and the second s
Owner Alabama Power	Company, Farley Nuclear	Plant #2
	Name and Address	The state of the s
. Location of Plant	umbia, Alabama	
1-8010-A		
, Valve Identification 6RV88LSB	Serial No. <u>N56963-01-001</u>	O Drawing No. DS-C-56963-1 Rev. O
Safety	Oriflea Siza Ma	Bion Sign 37 tales & Garage
Safety, Safety Relief, Pilot, Powe	or Actuated Inch	Pipe Size — Inlet 6 Outlet Inch
. Set Pressure (PSIC)		
. 361 [1073410 (1 310)		650 Kated Temperature
Suggest Causelly 344814 lbs/h	r sat a 3 v Overment	ure Blowdown (PSIG) 5%
Stamped California	- Control	ore blowdown (FS(C) _5/2
Hudenstate Test (BSIC) tales	4575 Complete	e Valve750
Hanner Lest (1210) Inter	Complex	733
. The nuterial, design, construction and	d workmanship comply with ASME C	ode, Section III.
• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	
Class 1 Edition 197	1,Addenda DateW1	nter 1972 ,Case No. 1501
		nter 1972 ,Case No. 1501 1649
Class 1 Edition 197 Pressure Containing or Pressure Reu		1649
Pressure Containing of Pressure Ret	aining Components	1649 8E (
		1649
Pressure Containing or Pressure Reu Bar Stock & Forgings	aining Components Serial No. [dentification	1649 BE(Material Specification 4 Including Type or Grade
Pressure Containing or Pressure Reu Bar Stock & Forgings	aining Components Serial No.	1649 BE (Material Specification 4
Pressure Containing or Pressure Reural Bar Stock & Forgings	aining Components Serial No. [dentification	1649 BE(Material Specification 4 Including Type or Grade
Bar Stock & Forgings Body Bonnet	Serial No. [dentification N90490-25-0113	Material Specification including Type or Grade ASME SA182 Gr. F316
Pressure Containing or Pressure Reu Bar Stock & Forgings Cashings Body Bonnet Bar Stock and Forgings	Serial No. [dentification N90490-25-0113 N90353-48-0134	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718
Bar Stock & Forgings 1. Carrier Body Bonnet	Serial No. [dentification N90490-25-0113 N90353-48-0134	Material Specification Including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II
Bar Stock & Forgings Body Bunnet Bar Stock and Forgings Disc Holder K57220-56-0	Serial No. [dentification N90490-25-0113 N90353-48-0134	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0	Serial No. [dentification N90490-25-0113 N90353-48-0134 N90556-25-0011	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316
Bar Stock & Forgings Body Bunnet Bar Stock and Forgings Disc Holder K57220-56-0	Serial No. [dentification N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 REDORNALER Nozzie	Serial No. [dentification N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 N90349-59-0137 N90350-46-0293 N90350-46-0293	Material Specification Including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy #6B ASME SA105 Gr. II
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECENTATION Nozzle Disc Insert Spring Washers K56380-54-014	Serial No. [dentification] N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0294	Material Specification Including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy #6B ASME SA105 Gr. II
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECONNER Nozzle Disc Insert Spring Washers K56380-54-014 Adjusting Bolt	Serial No. [dentification] N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0293 N90351-33-0004	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy #6B ASME SA105 Gr. II ASTM A193-70 Gr. 86 ASME SA193 Gr. 86
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECONSIDER Nozzle Disc Insert Spring Washers K56380-54-014 Adjusting Bolt Spindle Point	Serial No. [dentification] N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0294	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy 068 ASME SA105 Gr. II ASTM A193-70 Gr. 86 ASME SA193 Gr. 86
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECENSIENT Washers K56380-54-014 Adjusting Bolt Spindle Point K56381-54-0156	Serial No. [dentification] N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0293 N90350-46-0294 N90351-33-0004 N90354-56-0159	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy #6B ASME SA105 Gr. II ASTM A193-70 Gr. 86 ASME SA193 Gr. 86
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECONSTRUCT Nozzle Disc Insert Spring Washers K56380-54-014 Adjusting Bolt Spindle Point	Serial No. [dentification] N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0293 N90351-33-0004	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy #6B ASME SA105 Gr. II ASTM A193-70 Gr. 86 ASME SA193 Gr. 86 ASME SA193 Gr. 86 ASME SA193 Gr. 86 ASME SA193 Gr. 86 ASME SA193 Gr. 86 ASME SA193 Gr. 86
Bar Stock & Forgings Body Bonnet Bar Stock and Forgings Disc Holder K57220-56-0 RECONSTRUCT Disc Insert Spring Washers K56380-54-014 Adjusting Bolt Spindle Point K56381-54-0156	Serial No. [dentification N90490-25-0113 N90353-48-0134 130 N90553-56-0135 N90556-25-0011 - N90349-59-0137 N90350-46-0293 N90350-46-0294 N90351-33-0004 N90355-0159	Material Specification including Type or Grade ASME SA182 Gr. F316 ASME SA105 Gr. II ASTM A637-70 Gr. 718 ASME SA637 Gr. 718 ASME SA637 Gr. 718 ASME SA182 Gr. F316 Haynes Stellite Alloy 068 ASME SA105 Gr. II ASTM A193-70 Gr. 86 ASME SA193 Gr. 86

ASME SECTION XI. DOCUMENT POLICIAINS

ASME SECTION XI.

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ACC
Z/RSA

6"	Serial No. or	Material Specification	n a
	[dentification	Including Type or Gr	ıde
String K56380-54-0147	NX2761-0158	ASTM A304-76 Gr. 5186	бон
d. Boiting			
e. Other Parts such as Pilot Components			
Inlet Stud	N90488	ASME SA453 Gr. 660	
Inlet Nut	N90489	ASIN A195-69 Gr. B6 ASME SA193 Gr. B6	Mary Mary Mary Mary Mary Mary Mary Mary
Bonnet Stud	100987	ASTM A453-71 Gr. 660 ASME SA453 Gr. 660	
Bonnet Nut	89997	ASTM A193-71 Gr. 86 ASNE SA193 Gr. 86	• ,
			
			•
Remarks: Retest due to	part change of Disc	: Insert.	
We certify that the statements made in thi	s report are correct.	α	
21/2/ 13 80 Signed	Crosby Valve & Gage	Co // // / / / /	wants
Jane Strategy 13 Signed	Manufacturer	Oy - friend Comment	
Sertificate of Authorization No. 187	8 expires Septem	her 30. 1980	BECHTEL
Continuate of Authoritzation 30,	expites och cem	<u> </u>	412
			415

CERTIFICATE OF SHOP INSPECTION

I. the undersigned, holding a valid com Pressure Vessel inspectors and the State Factory Mutual Systems*.	mission issued by	the National I	Board of Bo	iler and uployed by
Factory Mutual Systems*,	Norwood, Mass	3		have
inspected the equipment described in this	s Data Report on _	3	[18_ 19	BD and
state that to the best of my knowledge a	nd belief, the Manu	facturer has c	onstructed	this equip
ment in accordance with the applicable	Subsections of ASM	E Section III.		

By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

John Superiors MASS 1266
National Board, State, Province and No. 1

*Arkwright-Boston Manufacturers Mutual Insurance Company - Mutual Boiler & Machinery Division.

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY ** As Required by the Provisions of the ASME Code Section XI

1. Owner F.E.N.O.C (NAME) 76 South Main Street - Akre (ADDRESS) 2. Plant Beaver Valley P (NAME) Shippingport, P/ (ADDRESS) 3. Work Performed By FENC (ADDRESS) 4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section (c) Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code (do Applicable Section XI Code Construction Code Construction Code (do Applicable Section XI Code Construction Code Construction Code (do Applicable Section XI Code Construction Code Construction Code (do Applicable Section XI Code Construction Code Construction Code (do Code Code Code Code Code Code Code Co	Ower Station (B) A 15077 OC Maintenance (NAME) A 15077 Steam General ASME III	/PS) Unit Typ Autl Exp tor Blowdown (C	Repair/Reptacement e Code Symbol horization No iration Date	001560 Organization	N/A	, etc. /A
76 South Main Street - Akre (ADDRESS) 2. Plant Beaver Valley P (NAME) Shippingport, P/ (ADDRESS) 3. Work Performed By FENC Shippingport, P/ (ADDRESS) 4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section 2	Ower Station (B) A 15077 OC Maintenance (NAME) A 15077 Steam General ASME III	/PS) Unit Typ Autl Exp tor Blowdown (C	Repair/Replacement e Code Symbol horization No iration Date _ Class 2)	2001560 Organization Stamp	2 080 nn P.O. No., Job No. N/A	, etc. /A
Shippingport, P/ (ADDRESS) 3. Work Performed By _FENC	A 15077 OC Maintenance (NAME) A 15077 Steam General ASME III	Typ Autl Exp tor Blowdown (C	Repair/Replacement e Code Symbol horization No iration Date _ Class 2)	2001560 Organization Stamp	080 In P.O. No., Job No. N/A	, etc. /A
3. Work Performed By FENC Shippingport, Proceedings (ADDRESS) 4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section 2	OC Maintenance (NAME) A 15077 Steam General ASME III	Autl Exp tor Blowdown (0	Repair/Replacement e Code Symbol horization No iration Date _ Class 2)	Stamp	N/A	/A
3. Work Performed By FENC Shippingport, Property (ADDRESS) 4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section 2	(NAME) A 15077 Steam General ASME III	Autl Exp tor Blowdown (0	e Code Symbol horization No iration Date _ Class 2)	Stamp	N/A	/A
4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section 2	A 15077 Steam General ASME III	Exp tor Blowdown (C	iration Date _		ű.	
4. Identification of System 5. (a) Applicable Construction Code (b) Applicable Edition of Section 2	ASME III	tor Blowdown (C	Class 2)			
(a) Applicable Construction Code (b) Applicable Edition of Section 3	ASME III	<u>1971</u> Edition,				
(a) Applicable Construction Code (b) Applicable Edition of Section 3	ASME III	<u>1971</u> Edition,				
6. Identification of Components	• •	· · · · · · · · · · · · · · · · · · ·			Corrected,	ASME
Name of Name of Component Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or Installed	Code Stamped (Yes or No
Valve Masoneilan	N-00168-3-6	N/A	2BDG-AOV102C2	1977	Corrected	Yes
Plug Masoneilan	N/A	N/A	HT# A17159-16	1989	Installed	Yes
	,		Rent taken in 1995			
महिला सुद्धेनिक है। १०० १० असे दृहद्देविक १९११	the company of the	Attack Strongs				
: -				-		
7. Description of Work <u>Rep</u>	laced valve plug					
•	static* Pneu	umatic*	_		ure	mpt 🏻

Remarks No-previous NIS-2 Data Report. Manufacturer's Data Reports Attached. Applicable Manufacturer's Data Reports to be attached
Plug PO# D045020
OFFICIATE OF COMPLIANCE
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI.
pe Code Symbol Stamp N/A
ertificate of Authorization No. N/A Expiration Date N/A
gned Serier Specin 151 Date November 4 , 20 06
CERTIFICATE OF INSERVICE INSPECTION
, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\underline{\psi - \lambda 7 - \emptyset J}$ to $\underline{/(-7 - 0 b)}$, and state that to the
pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
his inspection.
Medional Board, State, Province, and Endorsements
Date

Pg. __1 of __1

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

As Required by the Provisions of the ASME Code, Section III
Not To Exceed One Day's Production

Manufactured and certified by Mas	<u>oneilan-Dresser I</u>	ndustries 85 Body	rolicate Holders	on, Ma. 02322
Manufactured forDuquesne_L	ight Company 301	Grant St., Pittsl	ourgh, Pa.	15279
		turns and admess or bo-const.	•	
Location of installation Beaver	Valley Unit 2, Sh	ippingport, Pa.	15077	
TypeP9518S	A479/316	91,629	NA	1989
tarewing ma.1	mut'il, spec. no.i	ttensile strengthi	(CRN)	tyear budii
ASME Code, Section III:1971	Summ	er 1973	2 1019551	NA Code Case no.1
sbricated in accordance with Const.		(no.1		DateNA
lemarks: Replacement For	Masoneilan Valve	Serial No. NOO16	58-3	
Masoneilan Part	Number 011470-37	4-10/		
om, thickness (in.) NA Min.	desira shiekana tin 1	IA Dia 10 (4.4 in)	NA Legath	Overall Mr. E. io.) NA
		· · · · · · · · · · · · · · · · · · ·		overail III & m.1
Viven applicable, Certificate Holders'	Data Reports are attached	for each item or this report		
Part or Appurtenance	National	Part or Appu	rtenance	National
Serial Number	Soard No.	Serial Nu	mber	Board Number
HEAT NUMBER	in Numerical Order			in Numerical Order
417150 16			1.	
(1) A17159-16		(26)		
(2)		(27)	<u> </u>	
(4)		(28)		
(5)		(30)		
(6)		(31)		
(7)		(32)	- 1	
(8)		(33)	<u> </u>	
(9)	· · · · · · · · · · · · · · · · · · ·	(34)		
10)	 	(35)	<u> </u> _	· · ·
(11)		(36)		
(12)		(37)		
(13)		(38)		
(14)		(39)		
(15)	<u> </u>	[40]		
(18)		(41)		
(17)		(42)	. i .	

10. Design pressure 1085 psi. Temp. 560 °F. Hydro. test pressure NA at temp. °

(431

(45)

(48)

(49)

(501

(20)

(21) (22) (23)

124)

(25)

[&]quot;Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8% x 11, 12) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (back)

N-360228-108 CERTIFICATION OF DESIGN William Bohlke Design specifications certified by , Design report* certified by CERTIFICATE OF SHOP COMPLIANCE We certify that the statements made in this report are correct and that this (these) conforms to the rules of construction of the ASME Code, Section III. 8/19/89 N-1837 NPT Certificate of Authorization No. _ Name Masoneilan-Dresser Industries CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Ma. _____ and employed by H.S.B.I.& I. CO. _ and employed by _ of Hartford, Ct. have inspected these items described in this Data Report on 08 February 1929, and state that to the best of my knowledge and belief, the Certificate Holder has fabricated these parts or appurenances in accordance with the ASME Code, Section Ill. Each part listed has been authorized for stamping on the date shown above. By signing this certificate, neither the inspector nor his employer makes any warranty, expressed or implied, concerning the equipment described in this Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or loss of any kind arising from or connected with this inspection. Date 22-08-89 Signed Ille & Evan

FORM NPV-1 MANUFACTURERS' DATA REPURT FOR NUCLEAR PUMPS OR VALVES. (As Required by the Provisions of the ASME Code, Section III, Div. 1)

Location of Installation	Hame and Address of Purchaser or Com- Beaver Valley Power St (Name and Address)	tation, Unit No. 2	hippingport, PA
Pump or Valve Glo		is Inlet Size	Outlet Size
(e) Model No.	(b) Manufecturers' (c) Canadian) heart	(inch)
Series No.	Sector Registration	(d) Drawing	(f) Net'l. (g) Ye
or Type	No. No.	No. (a) Cla	ss 8d No. Built
1 \$38-40211	N-00168-3-6 N/A	A6878 2	N/A 197
1			
1			
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0)			
P.O. 628V-65	<u> </u>	7700	PONT 0202
	Ertal description of service for v	Dongton sew Dramatisto frida	•
	2160 pel at 1007.		less N/A
	2160 pel at 100°F.	Manufactorer	Remarks
Merk Ho.	2160 pel at 100°F.		1
Merk Ho.	2160 pel at 1007F. Masterial Spec. No.	Manufacturer	Remarks
Yossura Recaining Pieco Mark Ho.	2160 pel at 100°F.		1
Merk Ho. Cestings A951-9	Masterial Spec. No. ASPE SA216 GR WB	Manuferener OUSKER ALLOY	Remarks
Merk Ho. Cestings	2160 pel at 1007F. Masterial Spec. No.	Manufacturer	Remarks
Merk Ho. Cestings A951-9	ASPER SA216 GR NOB /	Manuferener OUSKER ALLOY	Remarks
Merk Ho. Cestings A951-9	Masterial Spec. No. ASPE SA216 GR WB	Manuferener OUSKER ALLOY	Remarks
Merk Ho. Cestings A951-9	ASPER SA216 GR NOB /	Manuferener OUSKER ALLOY	Remarks
Merk Ho. Merk Ho. Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASMS SA216 GR NOS /	Manuference OUSKER ALLOY CHEKER ALLOH	Remarks POUY EOWNET
Merk Ho. H Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASME SA216 GR MOB ASME SA216 GR MOB	Manufacturer OUSKER ALLOX CAUSER ALLOX	Remarks POUY BOWNET
Merk Ho. Merk Ho. P) Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASME SA216 GR MOB ASME SA216 GR MOB	Manuference OUSKER ALLOY CHEKER ALLOH	Remarks POUY EOWNET
Merk Ho. Merk Ho. Cestings A951–9 A663–10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manufacturer OUSKER ALLOX CAUSER ALLOX	Remarks POUY BOWNET
Merk Ho. All Cessings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manufacturer OUSKER ALLOX CAUSER ALLOX	Remarks POUY BONNET
Merk Ho. All Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manuference OUSKER ALLOX CARRER ALLOX	Remarks POUY BONNET
Merk Ho. Merk Ho. el Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks PODY POWNET
Merk Ho. All Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks PODY POWNET
Merk No. Merk No. [e] Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks PODY POWNET
Merk Ho. Merk Ho. [e] Cestings A951-9 A663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR NOB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks BODY ECHNIST
Merk Ho. Al Cestings A951-9 M663-10	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR MCB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks BODY ECONOTE
A)51-9 A663-10 D) Foreign	Masterial Spec. No. Masterial Spec. No. ASPE SA216 GR MCB /	Manuference OXISKER ALLOX CARAGER ALLOX	Remarks ROUY BONNET

⁽¹⁾ For menselly operated valves only.

Supplemental shades in form of first, shatches or drawings may be used provided (1) size is 8-12" x 11", (2) information in items 1, 2 and 5 on this data report is included an each sheet, and (3) each sheet is numbered and number of sheets is recorded at top of this form.

the state of the s		· FIRM. OSA 3	
Mark No.	Material Spec. No.	Manufacturer	Hemarks
Botting			
257707 Code S66	ASME SA193 GR B7	HASKELL MPG. CO.	STUDS
19778 Code S69	ASME SA194 GR2H	HASKELL MFG. CO.	IUIS
(d) Other Parts /			
73722-5	ASME SA479 TY316	JOSEAN ST. ST.	PLUG
	<u> </u>		
rociatic test 3250	pel.		
Aruction of the ASME Co ande Suntan 1973 Optoi Massonellan I (Manufacture)	nternational, INc.	ponems. Section M. Civ. L. Edition of No. 1. Edi	on 1971 1/13/78 expires 8/19/
Aruction of the ASME Control Summer 1973 Optof Optof Massonellan I (Massonellan I	de for Nuclear Power Plant Com, Code Case NoN/A nternational, INc.	ponems. Section III, Civ. L. Edition Office N. N.	on 1971 1/13/78
eruction of the ASME Co ende Summer 1973 Opte and Massonellan I	de for Nuclear Power Plant Com, Code Case NoN/A nternational, INc.	ponems. Section III, Civ. 1. Edition Of No. 1. Edition No. 1. Edit	on 1971 1/13/78 expires 8/19/
Aruction of the ASME Connel Suppose Date Massonellan I Misontectura	code for Nuclear Power Plant Com Code Case No N/A nternational, INc. N-1836 to N-1836 to CERTIFICATION O	ponems. Section III, Civ. L. Edition Option N/A N/A N/A N/A N/A N/A N/A N/A	on 1971 1/13/78 expires 8/19/
truction of the ASME Counts and Suppose 1973 By Masonellan I phierotectura ASME Certificate of Author gn information on file at	code for Nuclear Power Plant Com Code Case No N/A international, INc. INC	conems Section at Cav. L. Edition of No. 1. Edit	on 1971 1/13/78 expires 8/19/
truction of the ASME Counter 1973 Suppose 1973 Masonellan I Misonistan ASME Certificate of Author	code for Nuclear Power Plant Com Code Case No N/A international, INc. rization No N-1836	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
truction of the ASME Conde Suppose 1973 Masoniel Lan I Mismulatura ASME Continents of Author on information on file at an energy report (Class I on specifications contified	code for Nuclear Power Plant Com Code Case No N/A international, INc. IN-1836	conems Section at Cav. L. Edition of No. 1. Edit	on 1971 1/13/78 expires 8/19/
Inction of the ASME Counts Inde SUBBERT 1973 Date: Mascanel Lan I Mascanel	code for Nuclear Power Plant Com	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
truction of the ASME Counter 1973 MAISONELLAN I M	control of the second state of the second se	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
druction of the ASME Counted Suppose 1973 Date: Majornellan I Reminister ASME Certificate of Author gn information on file at a unalysis report (Class I gn specifications cartified tate PA Be analysis certified by [1]	code for Nuclear Power Plant Com	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
snuction of the ASME Counter Suppose 1973 Massoniellan I sherotecter ASME Certificate of Author grainformation on file at an energy and property (Class I specifications certified the party of the energy of the	code for Nuclear Power Plant Com	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
druction of the ASME Counter 1973 By Suppose 1973 MASONIELLAN I Reference Author ASME Certificate of Author gn information on file at a smalysis report (Class I gn specifications certified tate PA at analysis certified by (1) tate / N/A	code for Nuclear Power Plant Com	conems. Section at Civ. t. Edition of the No. 1. Section at Civ. t. Edition of the No. 1. Section of the No. 1	on 1971 1/13/78 expires 8/19/
druction of the ASME Counter 1973 By Suppose 1973 MASONIELLAN I Reference Author ASME Certificate of Author gn information on file at a smalysis report (Class I gn specifications certified tate PA at analysis certified by (1) tate / N/A	code for Nuclear Power Plant Com	conems. Section at. Civ. 1. Edition of the No. 1. N	on 1971 1/13/78 expires 8/19/
druction of the ASME Counted Suppose 1973 Digital Dig	code for Nuclear Power Plant Com Code Case No. N/A International, INc. INC.	P RESPECTION	on 1971 ///3/78 expires 8/19/ (Osce)
truction of the ASME Counts and Suppose 1973 Busines 1973 Masones Lan I Mason	code for Nuclear Power Plant Com Code Case No. N/A International, INc. International, INc. INC. INC. INC. INC. INC. INC. INC. INC	P RESPECTION Resort Board of Boiler and Pres Concerns: Section at Civ. 1, Edition of No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	on 1971 ///3/78 expires 8/19/ (Osce)
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druction of the ASME Counted Supposer 1973 Digital Di	CERTIFICATE OF SHO CERTIFICATION OF MARKET SHOP OF SHO CERTIFICATION OF MARKET SHOP OF SHOP	P RESPECTION Resort Board of Boiler and Pres Concerns: Section at Civ. 1, Edition of No. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	on 1971 ///3/78 empires 8/19/ (Date) Date 1971 Language 1971 Langu
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druction of the ASME Counted Suppose 1973 By Massone Lan I standard Massone Lan I standard Author ASME Certificate of Author Grant I see analysis report (Class I see analysis certified by (I) take N/A specifications cartified the PA see analysis certified by (I) take N/A specifications of the Seets or Province of Eart food; CT	centificate No. N/A code Case No. N/A international, INc. rization No. N-1836 to a centification of N/A centification of N/A centification of N/A centification of N/A by (1) Carl 3 Reg. No. 16297-E N/A Reg. No. N/A centificate of Sho velid commission issued by the N Mass. here inspected the secondance with the ASARE Code.	P INSPECTION Is of my Indianal Inc. Plichardson Prompt or volve, described in a first inc. Plichardson Prompt or volve, described in a first inc. Section III.	on 1971 1/3/78 empires 8/19/ (Date) Control CO this Data Report Manufecturer has
truction of the ASME Counts Supposed 1973 Masonellan I She Certificate of Author or information on file at an analysis report (Class I or specifications cartified the PA take PA take N/A igneture not required. Use undersigned, holding a he State or Province of Hartiford, CT 1-/3 and this pump, or visive, is going this cartificate, nelse	code Case No. N/A International, INc. INC. IN	P RESPECTION Island Board of Boiler and Precedent Completed by Basel Basel Completed in the pump. Or volve, described in the of my knowledge and belief, the Section M. I makes any warranty, expressed	on 1971 //3/78 empires 8/19/ (Date) this Data Report Manufecturer has or implied, conce
struction of the ASME Counds SURRENT 1973 Page 1973 MASONELLAN I Risenstatura ASME Certificate of Author gri information on file at an enabyers report (Class 1) gri specifications certified the PA to enabyers certified by (1) tate N/A ignature not required. Use tundersigned, holding a the State or Province of Hartford; CF -// sed this pump, or visive, is gring this certificate, nelsequipment described in st	code Case No. N/A International, INc. INC. IN	P RESPECTION Is of my language and belief, the granted are velve, described in the pump. or velve, described in the of my knowledge and belief, the Section III. I makes any warranty, expressed or the inspector mar his employed or the inspecto	on 1971 1/3/78 expires 8/19/ (Date) Coacel this Data Report Manufecturer has or implied, concert concert content be liable in
ruction of the ASME Counted Suppose 1973 By Masone Lan I standard Masone Lan I standard Asme Certificate of Authors as analysis report (Class I see enalysis certified by (I) take N/A ignature not required. Use the State or Province of Hartford; CF 1-//3 sed this pump, or valve, is squipment described in standard described in s	code Case No. N/A International, INc. INC. IN	P RESPECTION Is of my language and belief, the granted are velve, described in the pump. or velve, described in the of my knowledge and belief, the Section III. I makes any warranty, expressed or the inspector mar his employed or the inspecto	on 1971 1/3/78 empires 8/19/ 10seel Sure Vescet Inspection for implied, concert chair be liable in this inspection.

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STATE OF A STATE OF THE PROPERTY OF THE PARTY | _ | | 1051 |
|------|-----|------|
| Form | No. | 1954 |

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY & As Required by the Provisions of the ASME Code Section XI

				<u></u>			
1. Owner	F.E.N.O.C (NAME)		_ Dat	te	10/3	0/06	
76 South	Main Street – Akro (ADDRESS)	on, OH 44308	_ She	eet <u>1</u>	of	2	
2. Plant	Beaver Valley P	ower Station (BV	<u>/PS)</u> Uni	t No.		2	
	Shippingport, PA (ADDRESS)	A 15077		Repair/Replacement	001656 Organization		, etc.
3. Work Perfo	ormed By <u>FENC</u>	C Maintenance (NAME)	Тур	e Code Symbol	Stamp	N	<u>'A</u>
	Shippingport, P/	A 15077	Aut	horization No		N/A	
	(ADDRESS)		Exp	oiration Date		u	
4 Identification	on of System	Diesel Fuel Oil	System (Class	3)			
(b) Applicab	e Construction Code le Edition of Section > le Section XI Code Ca on of Components	(I Utilized for Repair/ ase(s): N/A			∖ Code Ca	ase	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Fuel Oil Storage Tank	Nat'l Annealing Box	6470	2214	2EGF-TK21B	1978	Corrected	Yes
Studs	Nova Machine	N/A	N/A	K339	2004	Installed	No
Nuts	Nova Machine	N/A	N/A	A201	2004	Installed	No
i kan sa	- Community Spirit	en en en en en en en en en en en en en e					
7. Description	of Work <u>Rep</u>	laced manway co	over studs and	nuts			

	No, previous NIS-2 Data Report. Code Data Report attached. Applicable Manufacture's Data Reports to be attached
<u>1 ¼"-</u>	8 Studs PO # 47030430 1 1/2"-8 Nuts PO # 47030430
	·
	CERTIFICATE OF COMPLIANCE
	CERTIFICATE OF COMM ENANCE
I certify th Code, Section	nat the statements made in the report are correct and that this conforms to the requirements of the ASME on XI.
voe Code S	Symbol Stamp N/A
,,	· · · · · · · · · · · · · · · · · · ·
`ertificata of	Authorization No. N/A Expiration Date N/A
or unoate Of	Additional Part
Signed	Owner or Owner's Designee, Title Service Specialist Date November 4 , 20 06
	CERTIFICATE OF INSERVICE INSPECTION
I the undere	igned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
	e or Province of Pennsylvania and employed by HSBCT of
and the State	Hartford, CT have inspected the components described in this
Oumara Bar	port during the period $\frac{4-27-05}{}$ to $\frac{11-7-06}{}$, and state that to the
	nowledge and belief, the Owner has performed examinations and taken corrective measures described in this
-	·
Owner's Rep	port in accordance with the requirements of the ASME Code, Section XI.
Ry signing #	nis certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
	s and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
1	
ta ar a da arras fara	le in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection	on.
1. 1. 1	
.0	~ S. Tyril Commissions NA 9428 ANIB PARS 84
_ wan	- 1 - My Ma Commissions State, Province, and Endorsements
	·
Doto	//-7
Date	, 20

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Design information on tite at National Annealing Box Co., Washington, PA Stress enalysis report on file at National Annealing Box Co., Washington, PA Design specifications certified by Richard P. Anderson R.z. No. 21602-E Prof. Eng. State PA_ Stress analysis report certified by_

CERTIFICA	TE OF SHOP	INSPECTION

VESSEL MADE BY National Annealing Box Company at Washington, PA I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of Pennsylvania and employed by Eartford Stm. Roller ISI Cool Hartford. have inspected the pressure vessel described in this Minufacturar's Data Report on state that to the bast of my knowledge and belief, the Nanutacturer has constructed this pressure vessel in accordance with the ASUE Code Section III. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure sel described in this Manufacturer's Data Ronors. Furthernors, neither the inspector nor his employer shall be flable in any manner ar a loss of any kind arising from or connected with this inspection. Commissions NE 4207N Kational Hozed, State, Province and No. In pertice's Steamure

Manufactured by - National Annealing Box Company, Washington, PA

Manufactured for - Duquesne Light Co., Beaver Valley Unit 2, Shippingport, PA

Type - Horiz. Vessel 6470 Natl.Bd. #2214 Yr. Built - 1978

Applicable ASME Code: Section III, Edition - 1974, Class - 3.

Nozzles: Purpose (Inlet,Outlet, Drain)	Number	Dia.or Size	Type	Material	Tk.	Reinforcement Naterial	How Attached
Pump Recirc.	2	3/4"	Butt Wld	SA106Gr.B	Sch.160	Integral	Welded
Return	1	1"	Butt Wld	SA106Gr.B	Sch.80	Integral	Welded
P111	1	^2"	Butt Wid	SA106Gr.B	Sch.80	Integral	Welded
Suction	1	3"	Butt Wid	SA106Gr.B	Sch.80	SA516 Gr.70	Welded
Level Instr. 6 Vent	2	4"	Butt Wld	SA106Gr.B	Sch.80	SA516 Gr.70	Welded
Samb Lamb	2	14"	Butt Wld	SA106Gr.B	Sch.80	SA516 Gr.70	Welded

Form No	1955

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

. Owner	F.E.N.O.C		_ Da	te	11-0	4-06	
76 South M	lain Street - Akro	on, OH 44308	_ Sh	eet <u>1</u>	of		2
Plant	Beaver Valley P	ower Station (BV	<u>(PS)</u> Un	it No.		2	
· · · · · · · · · · · · · · · · · · ·	Shippingport, PA	\ 15077		Work C		00165646 P.O. No., Job N	o., etc.
Work Perfor	med By <u>BVPS</u>	Maintenance	Туј	pe Code Symbo	l Stamp	. <u> </u>	V/A
	Shippingport, PA	` '	Au	thorization No		N/A	·
	(ADDRESS)		Ex	piration Date _		<u>u</u>	
Identification	n of System	Reactor Coolan	t (Class 1)				
	e Section XI Code Ca	. ,					
Name of	Name of	Manufacturer	National Board	Other	Year	Corrected, Removed, or	ASME Code Stamped
Power Relief Valve	Manufacturer Garrett Pneumatic	Serial No. P-119	N/A	2RCS-PCV456	1983	Installed Corrected	Yes or N
Plug	Anderson Greenwood Crosby	N96012-76-0151	N/A	N/A	2004	Installed	Yes
A. J.	produce a practigation	ika Karangan	3		17.	California	
·	en en en en en en en en en en en en en e						
. Description	of Work Rep	laced valve plug	assembly.				
Tests Cond	ucted: Hydros Other			ominal Operating	_		empt 🛭

ertificate of Authorization No. N/A Expiration Date N/A gned Senior Specialist Date November 30 , 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 1 - 2 7 - 0 to 1 - (1 - 0 to 1), and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with		•
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A Genior Specialist Date November 30, 20 06 CERTIFICATE OF INSERVICE INSPECTION If the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period Y-27-05 to 1/-/-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. M. A. 2.3.8.4		
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. per Code Symbol Stamp N/A ertificate of Authorization No. N/A Expiration Date N/A gned Senior Specialist Date November 30 , 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Domer's Report during the period Y-27-05 to 1/-(1-06), and state that to the least of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Domer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. M. A.23.84		•
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME de, Section XI. per Code Symbol Stamp N/A Expiration Date N/A Expiration Date N/A Senior Specialist Date November 30 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this owner's Report during the period Y-2-0-0 to I/-(1-0 6 and state that to the est of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this owner's Report in accordance with the requirements of the ASME Code, Section XI. Typical State S		
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certificate of Authorization NoN/A		
certificate of Authorization No. N/A Expiration Date N/A Senior Specialist Date November 30 , 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Domer's Report during the period Y-27-05 to I/-//-05 and state that to the less of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Domer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. M. AA384	I certify that the statements made in the node, Section XI.	report are correct and that this conforms to the requirements of the ASME
certificate of Authorization No. N/A Expiration Date N/A Senior Specialist Date November 30 , 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Domer's Report during the period Y-27-05 to I/-//-05 and state that to the less of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Domer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer thall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. M. AA384	ne Code Symbol Stamp N/A	
CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Dwner's Report during the period Y-27-05 to II-(II-05), and state that to the pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, M A 23 84	pe dode dymbol damp 14/14	
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Hartford, CT have inspected the components described in this Owner's Report during the period		
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examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. J. J. 2384	And the State or Province of Pennsylvania Hartford, CT Dwner's Report during the period Dest of my knowledge and belief, the Owner has	and employed by <u>HSB CT</u> of have inspected the components described in this $y-27-05$ to $y-27-05$, and state that to the sperformed examinations and taken corrective measures described in this
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	Hartford, CT Owner's Report during the period best of my knowledge and belief, the Owner has Owner's Report in accordance with the requirem By signing this certificate neither the inspector nexaminations and corrective measures described shall be liable in any manner for any personal in	and employed by HSB CT of have inspected the components described in this Y-27-05 to //-//-05, and state that to the sperformed examinations and taken corrective measures described in this ments of the ASME Code, Section XI. For his employer makes any warranty, expressed or implied, concerning the ad in this Owner's Report. Furthermore, neither the inspector nor his employer ijury or property damage or a loss of any kind arising from or connected with
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FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL NUCLEAR PARTS AND APPURTENANCES*

	As required by the Provisions of				
1. N	Sanufactured and certified by	Anderson Green	iwood Crosby, 43 Kend	irick St., Wrentl	nam, MA 02093
		(N	lame and Address of N		er)
2. N	lanufactured for		FIRST ENERGY CO		·
		•	and Address of Purchas	,	
3. L	ocation of Installation	BEA	VER VALLEY POW	ER STATION	<u> </u>
			(Name and Addr	ess)	
4. T	ype DS-C-67970-13REV.J ASMI	E SA479 TYPE316	75,000		2004
	(drawing no.) (m	at'l. spec. no.)	(tensile strength)	(CRN)	(year built)
5. A	SME Code, Section III, Division 1:	1977	SUMMER 1979	1	
		(edition)	(addenda date)	(class)	(Code Case No.
5. F	pricated in accordance with Const. S	Spec. (Div. 2 only)	 ·	Revision -	- Date -
			(no.)	· 	
/. R	emarks		•	•	•
s. N	om. thickness (in.) Min. des	ign thickness (in.)	- Dia. ID (ft & in	.) - Length	overall (ft & in.) -
	hen applicable, Certificate Holders' of				
					
	Part or Appurtenance	National	Part or App		National
	Serial Number	Board No.	Serial N	lumber	Board No.
	••	in Numerical Order	•		in Numerical Order
(1	N96012-75-0148		(26)		
(2)			(27)		
(3)			(27) (28)		
(3)			(27) (28) (29)		
(3) (4) (5)			(27) (28) (29) (30)		
(3) (4) (5) (6)			(27) (28) (29) (30) (31)		
(3) (4) (5) (6) (7)			(27) (28) (29) (30) (31) (32)		
(3) (4) (5) (6) (7) (8)			(27) (28) (29) (30) (31) (32) (33)		
(3) (4) (5) (6) (7) (8) (9)			(27) (28) (29) (30) (31) (32) (33) (34)		
(3) (4) (5) (6) (7) (8) (9) (10)			(27) (28) (29) (30) (31) (32) (33) (34) (35)		
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(3) (4) (5) (6) (7) (8) (9) (10) (11) (11)			(27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38)		
(3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (12)			(27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37)		
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(when applicable)

^{*} Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8-1/2 x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet, (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

<u>CERTIFICATE OF DESIG</u>	<u>N</u>		
Design specifications certified by LIKE EZEKOYE (when applicable)	P.E. State	PA	Reg. no. 18379-E
Design report* certified by W. D. GREENLAW (when applicable)	P.E. State	MA	Reg. no. <u>14784</u>
CERTIFICATE OF COMPLIA	NCE	•	
We certify that the statements made in this report are correct and that this (these conforms to the rules of construction of the ASME Code, Section III, Division		·	
NPT Certificate of Authorization No. N-1877 Expires Sep. 30, 20 Anderson Greenwood Crosby	004		
•	D.E.	thorized I	Representative)
CERTIFICATE OF INSPECTION	<u>ON</u>		
I, the undersigned, holding a valid commission issued by the National Board of the State or Province of and employed by ABS of have inspected these items described these parts or appurtenances in accordance with the ASME Code been authorized for stamping on the date shown above.	Group Inc. ibed in this Da edge and belie	ta Report f, the Cert	on ificate Holder
By signing this certificate, neither the Inspector nor his employer makes any wa		-	
the equipment described in this Data Report. Furthermore, neither the Inspector manner for any personal injury or property damage or loss of any kind arising fi	. - `	•	- 1
Date6-/7-, 20 <u>04</u> .			
Signed Joel Lorke Commissions	Texalol	<u> </u>	
(Authorized Inspector) (Nat'l.)	Bd. (incl. endor	sements) an	d state or prov. and no.)

Form No.	1964

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. Owner	F.E.N.O.C		_ Dat	e	11/1	0/06	
76 South M	lain Street – Akro	on, OH 44308	_ She	eet <u>1</u>	of		2
Plant	Beaver Valley P	ower Station (B)	<u>/PS)</u> Uni	t No.		2	
	Shippingport, PA	15077				00154335	
	(ADDRESS)			Repair/Replacement	t Organization	1 P.U. No., JOB N	o., etc.
Work Perfor	med By <u>BVPS</u>	-Valve Team (NAME)	Тур	e Code Symbol	Stamp	1	N/A
	Shippingport, PA	15077	Aut	horization No		N/A	
	(ADDRESS)		Exp	oiration Date _			
. Identification	n of Contact	Quench Spray	(Class 0)				
	Construction Code			······································			
(b) Applicable (c) Applicable	e Edition of Section X e Section XI Code Ca n of Components	(I Utilized for Repain use(s): <u>N/A</u>		•			
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed, or Installed	ASME Code Stamped (Yes or No
Gate Valve	Walworth	A1105	1214	2QSS-1	1979	Corrected	Yes
Plug	Crane Nuclear	N/A	N/A	Ht. #XDT	2006	Installed	No
nQAy(**secto)	and the second speeds						
			· · · · · · · · · · · · · · · · · · ·				
· »,							
. Description	of Work Rep	aced valve stem	n leak off plug.				
. Tests Cond	ucted: Hydros Other [tatic* ☐ Pneu	ımatic*	minal Operating	g Pressu	ıre⊠ Ex	empt 🗌

. Remarks Code Data Report attached. Applicable Manufacturer's Data Reports	to be attached
	· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF COMPLIA	NCE
I certify that the statements made in the report are correct and that the	nis conforms to the requirements of the ASME
ode, Section XI.	iis comornis to the requirements of the Asime
ype Code Symbol Stamp N/A	
ertificate of Authorization No. <u>N/A</u> Expiration Date	N/A
$l \rho \vee 1$	
igned Senior Specialist Date Owner or Owner's Designee, Title	November 22 , 20 <u>06</u>
Owner or Owner's Designee, Title	•
	DECTION
CERTIFICATE OF INSERVICE INS	PECTION
I, the undersigned, holding a valid commission issued by the National Board of	
and the State or Province of Pennsylvania and employed by HSB	
Hartford, CT have inspected the compon	
Owner's Report during the period $4-27-05$ to	
best of my knowledge and belief, the Owner has performed examinations and I	
Owner's Report in accordance with the requirements of the ASME Code, Section 1.	on XI.
By signing this certificate neither the inspector nor his employer makes any war examinations and corrective measures described in this Owner's Report. Furth	
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shall be liable in any manner for any personal injury or property damage or a lo	ss of any kind ansing hom of connected with
this inspection.	
Dean S. hail	NB9428 ANIB PA2384
Inspector Signature Commissions	National Board, State, Province, and Endorsements
Date	
Date	•

FORM NPV-1 N CERTIFICATE HOLDERS' DATA REPORT FOR NUCLEAR PUMPS OR VALVES. As Required by the Previsions of the ASME Code, Section III, Div. 1

, ,	Name and Address of h		- A		نڪت فقي ان ۾ ريان	Barta 🕍 a sa
arec for _Ducq	leene Jackt Co	MOSTY. A	gents: Sto	ne & Web	ster, Bo	eston,
er installation	SERVET VALLEY	Power St	ation, Uni	t 2		·
7 24 35	Name and Address 226 UGOSP		des Cine	12"	tlet Size	12"
Same - Taxa	Gate Valve	Nominal In	(iu	ichl		(inch)
		(c) Canadian	· · · · · · · · · · · · · · · · · · ·	•	and the second of the second o	in and the second secon
enës Na.	1. Land 1. Company of the Company of	Registration	(d) Drawing	tol Class	(f) Natt.	(g) Year
er Type	No.	No.	No.	(e) Class	8d. No.	Built
226 CGOSP	A1105		D-50946	2	1214	1979
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		The second secon				· · · · · · · · · · · · · · · · · · ·
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	A STATE OF S	es es es es es es es es es es es es es e			ay see	
	August 1995 - Angels 1995 - Angels 1995	, <u>1</u>	· · · · · · · · · · · · · · · · · · ·			
	D.	wated wa	ter servic			•
iing Pressure	(Brief description	of service for whi	sh equipment was d	ressure Class	150	<u> </u> (1
lung Pressure	(Brief description	of service for whi	sh equipment was d		150	(1
ting Pressure	(Brief description	of service for white (Temperature) 00°F.	sh equipment was d	ressure Class	150# Remar Heat #	
Retaining Pieces Mark No.	(Brief description (Preserve) 275 pai at 10	(Temperature) 00°F.	*F or Valve Po	ressure Class	Remar Heat #	
ting Pressure Retaining Pieces Mark No. 193	(Brief description (Pressure) 275 pai at 10 Material Sp	(Temperatura) 00°F.	Tor Valve Po	turer	Remar Heat #	
ing Pressure Retaining Pieces Mark No. 93	(Brief description (Pressure) 275 pai at 1 Material Sp SA-351, CPI SA-351, CPI	(Temperature) 00°F.	— 'F or Valve Po	turer	Remar Heat # 5569D 5474D	
ung Pressure letaining Piecee Mark Ng. gs y ne 5	(Brief description (Pressure) 275 pai at 10 SA-351, CPI	(Temperature) 00°F.	Manufacth/A	turer	Remar Heat #	
ing Pressure Retaining Pieces Mark No. se ly ine 5	Material Sp. SA-351, CPI SA-351, CPI SA-351, CPI	(Temperature) 00°F.	— 'F or Valve Po	turer	Remar Heat # 5569D 5474D	
ing Pressure letsining Pieces Merk No. gs ly une t	(Brief description (Property of 275 pai et 1) Meteriol Sp SA-351, CP(SA-351, CP(SA-351, CP)	(Temperature) 00°F.	Manufacth/A	turer	Remar Heat # 5569D 5474D	
ing Pressure letsining Pieces Merk No. ps ly lne = ic	(Brief description (Property of 275 pai et 1) Meteriol Sp SA-351, CP(SA-351, CP(SA-351, CP)	(Temperature) 00°F.	Manufacth/A	turer	Remar Heat # 5569D 5474D	
ing Pressure letsining Pieces Mark No. 18 Y Ing 5	(Brief description (Property of 275 pai et 1) Meteriol Sp SA-351, CP(SA-351, CP(SA-351, CP)	(Temperature) OFF. B. S.	Manufacth/A	turer	Remar Heat # 5569D 5474D	
ing Pressure letsining Piecee Mark No. 18 Y DG 5	(Brief description (Property of 275 pai et 1) Meteriol Sp SA-351, CP(SA-351, CP(SA-351, CP)	(Temperature) OFF. B. S.	Manufacth/A	turer	Remar Heat # 5569D 5474D	
ing Pressure letsining Pieces Merk No. ps ly lne = ic	(Brief description (Property of 275 pai et 1) Meteriol Sp SA-351, CP(SA-351, CP(SA-351, CP)	(Temperature) OFF. B. S.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	
ing Pressure Retaining Pieces Mark No. gs ly ing 5	(Brief description 275 pai at 1 Material Sp SA-351, CP SA-351, CP	(Comportate) OFF.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	
king Pressure Retaining Pieces Mark No. ss ty one =	(Brief description 275 pai at 1 Material Sp SA-351, CP SA-351, CP	(Comportate) OFF.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	
ing Pressure Retaining Pieces Mark No. 98 1V 1Ne = 1	(Brief description 275 pai at 1 Material Sp SA-351, CP SA-351, CP	(Comportate) OFF.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	
ing Pressure letsining Pioces Mark No.	(Brief description 275 pai at 1 Material Sp SA-351, CP SA-351, CP	(Comportate) OFF.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	
ing Pressure letsining Pioces Mark No.	(Brief description 275 pai at 1 Material Sp SA-351, CP SA-351, CP	(Comportate) OFF.	Manufacth/A	turer Loyco Loyco	Remar Heat # 5569D 5474D	

	Meterial Spec. No.	Manufacturer	Remarks Heat #
lating			
<u>studs</u>	SA-193, GrB8	. B & G	8644067
Z::S	SA-194, Gr 8	B & G	A9368
-		· · · · · · · · · · · · · · · · · · ·	
ic' Other Parts			
Fipe Plug	SA-182, TPF 304	A.B. Murray/	30
Libe 11m2	100. 101, 111 304	Camco	
		~-	
	- 17 Last 10 - 10 - 10 - 10	· .	
	moany/Aloyco Plant by	Frank Truppo Ma	nager Q.A.
		Frank Truppo Ma	nager Q.A. I expires 4-7-81
	thorization No. <u>N-2076</u> to use	the N symbol	
	thorization NoN=2076to use CERTIFICATION OF	thesymbo	
ASME Certificate of Au pn information on file	thorization No. N-2076—to use CERTIFICATION OF Walworth Company/Alo	DESIGN yco Plant	
ASME Certificate of Au pn information on file to analysis report (Clas	CERTIFICATION OF Walworth Company/Alous 1 only) on file at	DESIGN yco Plant ired	
on information on file is analysis report (Class) specifications certifications certifications certifications.	CENTERCATION OF Walworth Company/Alous 1 only) on file atNot_required by (1)Faruk A. Gopala:	DESIGN yco Plant ired	
pn information on file as shellysis report (Classes 23	CENTRICATION OF Walworth Company/Alous 1 only) on file atNot_required by (1) Faruk A. Gopala. Reg. No21966-E	DESIGN yco Plant ired	expires 4-7-81 (Date)
on specifications certificate 23	CENTERCATION OF Walworth Company/Alous 1 only) on file atNot_required by (1)Faruk A. Gopala:	DESIGN yco Plant ired	expires 4-7-81 (Date)
ASME Certificate of Au pn information on file is analysis report (Class is specifications certificate 23 is shelysis certified by line	CENTIFICATION OF Walworth Company/Alors 1 only) on file atNot_required Reg. No21966-E Not_required Reg. No119	DESIGN yco Plant ired	expires 4-7-81 (Date)
on specifications certificate 23	CENTIFICATION OF Walworth Company/Alors 1 only) on file atNot_required Reg. No21966-E Not_required Reg. No119	DESIGN yco Plant ired	expires 4-7-81 (Date)
ASME Certificate of Au pn information on file is analysis report (Class is specifications certificate 23 is shelysis certified by line	CENTIFICATION OF Walworth Company/Alors 1 only) on file atNot_required Reg. No21966-E [1]Not_required List name only.	DESIGN yco Plant ired	expires 4-7-81 (Date)
ASME Certificate of Au gn information on file manalysis report (Clas an specifications certificate 23 as analysis certified by him	CERTIFICATION OF Walworth Company/Alous 1 only) on file at	DESIGN yco Plant ired	expires 4-7-81 (Date)
pn information on file as analysis report (Class 23 seelysis certified by the seelysis certified	CENTIFICATION OF Walworth Company/Alors 1 only) on file atNot_regular Reg. No21966-E Not_regulared Reg. No1) List name only. CENTIFICATE OF SHOP g a valid commission issued by the National State of Section 1986 (1986) New Jersey	DESIGN yco Plant ired NSPECTION tionel Board of Boiler and Pre	expires 4-7-81 (Date)
gn information on file in shalysis report (Class 23 analysis certified by him analysis certified	CERTIFICATION OF Walworth Company/Alors 1 only) on file atNot_required Reg. No21966-E	DESIGN yCO Plant ired NSPECTION tionel Board of Boiler and Pre and employed by HSB pump, or valve, described	Hasure Vessel Inspects I&I CO. In this Data Report
on information on file of specifications certified by the service certified by the service of th	CERTIFICATE OF SHOP at New Jersey CERTIFICATE OF SHOP at New Jersey List name only.	DESIGN yCO Plant ired **NSPECTION pionel Board of Boiler and Pre and employed by HSB pump, or valve, described in throwledge and belief, the NC	Hasure Vessel Inspects I&I CO. In this Data Report
on information on file as analysis report (Class 23 solysis certified by the state or Province of Earth 2020).	CERTIFICATION OF at Walworth Company/Alor at I only) on file atNot_regular Reg. No21966-E [1]Not_regulared Reg. No	DESIGN yCO Plant ired NSPECTION tionel Board of Boiler and Property of the Michael Board of the Mic	resure Vessel Inspects I&I CO. in this Data Report Certificate Holder has co
gn information on file in analysis report (Classes) specifications certified by the analysis certified by the security of Province of Earth 1970.	CERTIFICATION OF Walworth Company/Alo at Walworth Company/Alo at I only) on file at	DESIGN yCO Plant ired **NSPECTION bionel Board of Boiler and Property of Walve, described in the November of Boiler and Property to the Inspector por his ample of the Inspector por h	resure Vessel Inspects I&I CO. In this Data Report Certificate Holder has co
pn information on file in specifications certified by specifications certified by the service of Province of Earth 1970, or valved in a pump, or valved in a	CERTIFICATION OF at Walworth Company/Alor at I only) on file atNot_regular Reg. No21966-E [1]Not_regulared Reg. No	DESIGN yCO Plant ired **NSPECTION bionel Board of Boiler and Property of Walve, described in the November of Boiler and Property to the Inspector por his ample of the Inspector por h	resure Vessel Inspects I&I CO. In this Data Report Certificate Holder has co

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				For	m No.		1972
F(RS/REPLACEMEI ASME Code Sect		IVITY	
1. Owner	F.E.N.O.C		Da	ate	12/1	9/06	
76 South M	lain Street - Akre	on, OH 44308	_ SI	heet1	of	1	<u> </u>
2. Plant	t Beaver Valley Power Station (BVPS)			Unit No. 2			
,	Shippingport, PA	A 15077		Work Or Repair/Replacement		00232622 P.O. No., Job N	o., etc.
3. Work Perfor	med By <u>BVPS</u>	Construction Se	ervice Ty	ype Code Symbol	Stamp	<u></u>	√A
	Shippingport, PA	, ,	Au	uthorization No		N/A	
	(ADDRESS)		E	xpiration Date _			
4. Identification	n of System	Reactor Coolar	nt (Class 1)				
(c) Applicable	e Edition of Section X e Section XI Code Ca n of Components	· · · · · · · · · · · · · · · · · · · 	Replacement Act	tivity1989			,
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Globe Valve	Kerotest	PS5-5	. N/A	2RCS-50	1977	Removed	Yes
Pipe Support	FENOC	N/A	N/A	2RCS-PSA960	2006	Installed	No
t e ta t	. ,	೯೬೬ ೯೬೬ ಕನ್ನಡಗಳ ಕಾರ್ಯಾಪ್	\$ - 1				
	·						
		:					
7. Description		nated/removed v		alled pipe and cou	plings.	Capped p	ipe
8. Tests Cond	ucted: Hydros Other [Nominal Operating si Test Temp.			empt 🗌

*Record test pressure and temperature

	Applicable Manufacturer's Data Reports to	Original Code Data Report attached to be attached blings: P.O. 45210398 / Ht. #60958;
Caps: P.O. 7121575 / Ht. #60956	B	
		<u> </u>
	TOTAL OF COMPLIAN	NOT.
CE	ERTIFICATE OF COMPLIAN	
odo Section VI	report are correct and that this	s conforms to the requirements of the ASME
pe Code Symbol Stamp N/A		_
ertificate of Authorization No. N/A	Expiration Date	N/A
gned SCOTE Owner's Designee, Ti	<u>Senior Specialist</u> Date _	<u>January 12</u> , 20 <u>07</u>
CERTI	FICATE OF INSERVICE INSPI	ECTION
, the undersigned, holding a valid commission i		
and the State or Province of Pennsylvania Hartford, CT	and employed by HSB C have inspected the compone	
Owner's Report during the period		
best of my knowledge and belief, the Owner ha Owner's Report in accordance with the requirer		
By signing this certificate neither the inspector reexaminations and corrective measures describe	ed in this Owner's Report. Furthe	ermore, neither the inspector nor his employer
shall be liable in any manner for any personal in this inspection.		so or any mist ansing from Or Conflected with
Dean J. Dynh Inspectors signature	Commissions	T, N PA 2384 National Board, State, Province, and Endorsements
,	20 87	

Form No.	1973

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY " As Required by the Provisions of the ASME Code Section XI

	" As Require	ed by the Provi	isions of the A	SME Code Sect	ion XI		Markata da
1. Owner	F.E.N.O.C		Dat	e	12/1	9/06	
76 South M	ain Street - Akro	on, OH 44308	_ She	eet <u>1</u>	of	f	<u> </u>
2. Plant	Beaver Valley P	ower Station (B)	<u>VPS)</u> Uni	t No.		2	
· , 	Shippingport, PA (ADDRESS)	15077		Work Order Nos Repair/Replacement			
. Work Perfor	med By <u>Westi</u>	nghouse/PCI (NAME)	Тур	e Code Symbol	Stamp		N/A
	Lake Bluff, IL 60 (ADDRESS)	044		horization No biration Date _			
I. Identification	n of System _	Reactor Coola	_				
(b) Applicable	Construction Code Edition of Section X Section XI Code Ca of Components	(I Utilized for Repain use(s):		•	a <u>, 1401-1</u>	<u>, 1459-1</u> Cod	e Case
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed. or Installed	ASME Code Stamped (Yes or No)
Reactor Vessel Head	Combustion Engineering	CE-9071	21669	2RCS-REV21	1975	Corrected	Yes
	120,420						
jawa 1969 K	er. A Terdu	end of the Sp	roger o				
•		4					
. Description	of Work Perfor			y repair on the Jon nos. 16, 56, ar		nd Tube O	D (below
8. Tests Condo	ucted: Hydrosi Other [umatic* ☐ No psi	ominal Operating Test Temp.			empt 🗌

9. Remarks Previous NIS-2 Data Report No. 1656. Original Data Report attached to 1656. Weld Applicable Manufacturer's Data Reports to be attached
overlay was performed per Relief Request BV3-RV-04. Work was performed by Westinghouse/PCI
under the BVPS FENOC QA and ASME XI programs.
under the BYPS I ENOC QA and ASME At programs.
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
·
Certificate of Authorization No. N/A Expiration Date N/A
Signed Senior Specialist Date December 20 , 20 06
Comic of omic 3 occupies, file
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this Owner's Report during the period $\frac{4-22-05}{1000}$ to $\frac{11-11-06}{1000}$, and state that to the
Owner's Report during the period $\frac{9-37-03}{}$ to $\frac{1}{-1/-}$ to $\frac{1}{-1/-}$ and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Come 3 report in accordance with the requirements of the Asiac Code, Section A.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Dear S. hympe Commissions NB9428 ANIB PA 2384
Inspector's Signature National Board, State, Province, and Endorsements
Date 12-26-, 20 0 6

Form	No	1974
1 131111	141)	13/4

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

1. Owner		I.O.C		_ Da	ate	10/2	6/06	
76 So	uth Main Stre	•	on, OH 44308	Sł	neet1	of	1	
2. Plant ₋		Valley P	ower Station (B\	<u>/PS)</u> Ur	nit No.		2	
	Shippin	gport, PA	\ 15077		Work C	order #20	00232912	
		DRESS)			Repair/Replacemen	t Organization	P.O. No., Job No.	, etc.
3. Work F	Performed By	BVPS	-Construction Se	<u>ervice</u> Ty	pe Code Symbo	l Stamp	N	/A
		gport, PA	\ 15077	Αι	uthorization Ño.		N/A	
	(AD	DRESS)		Ex	piration Date		ű	
				_,	_			
4. Identifi	cation of Sys	tem _	Reactor Coolar	nt (Class 1)				
	cation of Cor							
Name of Componen		me of lacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed. or Installed	ASME Code Stamped (Yes or No
Valve	Ker	rotest	JU1-17	6460	2RCS-635	1975	Removed	Yes
Pipe	Energy	& Process	N/A	N/A	Ht. #553070	2006	Installed	No
Couplin	g Energy	& Process	N/A	N/A	HT# 239384	2006	Installed	No
`#* _~	DEBLORE.	· 1988年 (大田市)28	विकासी प्रदेश कि । ११ -	. V. V. J. St.	and the second of the second		, ash in	. 1 19
					4.		·	
	ption of Work		tatic* Pneu		stalled pipe spoo lominal Operating si Test Temp.	g Pressu	ıre ⊠ Exe	
		*Record tes	t pressure and temperature	:				

<u>Pipe</u>	Applicable Manufacturer's Data Reports to be attached PO# 45185546, coupling PO# 45210302, 7/8"-9 studs PO# 104366-207 Ht. #RRW, and
<u> 7/8"</u> -	-9 nuts PO# 45189502 Ht. #185C.
· · · · · · · · · · · · · · · · · · ·	CERTIFICATE OF COMPLIANCE
I certify to Code, Section	hat the statements made in the report are correct and that this conforms to the requirements of the ASME on XI.
ype Code	Symbol Stamp N/A
Certificate o	f Authorization No. N/A Expiration Date N/A
Signed	Senior Specialist Date December 18, 20 06 Owner or Owner's Designee, Title
*	CERTIFICATE OF INSERVICE INSPECTION
1 the under	nian of holding a valid assemblation is used by the National Board of Bailer and Brassura Vessel Inconsistant
	signed, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors te or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of
	Hartford, CT have inspected the components described in this
Owner's Re	port during the period $\frac{4-2205}{}$ to $\frac{11-11-06}{}$, and state that to the
best of my l	knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Re	port in accordance with the requirements of the ASME Code, Section XI.
examination	his certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the ns and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer ble in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspecti	
	011.
<u> </u>	Commissions NB9427 ANTB PA2384 Inspectors signature Commissions NB9427 ANTB PA2384 National Board, State, Province, and Endorsements
Data	12-19-, 20 06
Date	/ ~ · · ·

Form No.	1976	

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

			· · · · · · · · · · · · · · · · · · ·					
1.	Owner Fi	rst Energy Nucle	ar Operating Co	mpany Da	te	10/2	3/06	
	76	(NAME)	ot Alrean Old	14308 She	not 1	ol		2
		(ADDRESS)	et - Akton OH 4	14300 Sile	eet <u> </u>	0	' 	۷
2.	Plant	Beaver Valley I	Power Station	Uni	t No		2	
		, ,	ppingport, PA 1	5077	Westingho	use P C) # 7024 8	29
. •		(ADDRESS)	ppingport, 171 i	<u> </u>	Repair/Replacement			
3.	Work Perfo	med ByB	VPS/Site Project	tsTyp	e Code Symbol	Stamp		N/A
		Route 168 - Shi	ppingport, PA 1	5077 Aut	horization No		N/A	
		(ADORESS)		Ext	oiration Date _	*	· N/A	·
	144641-	f O t	Danata					
4.	identificatio	n of System _	Reactor	coolant				
5 .	(a) Applicable	Construction Code	ASME Section I	<u> </u>	Edition, <u>\$72</u> Ad	denda, <u> </u>	See N-1 Co	de Case
	` ' ' '	e Edition of Section)	•	s/Replacement Acti	vity: 1989 Edition.	No Adde	<u>nda</u>	
	(c) Applicabl	e Section XI Code Ca	ase(s) <u>N/A</u>	-				
6.	Identificatio	n of Components	5					
		<u> </u>	· · · · · · · · · · · · · · · · · · ·				Corrected,	ASME
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Removed, or installed	Code Stamped (Yes or No)
•	Steam Generator	Westinghouse	DMGT-1961	W-16598	2RCS-SG21A	1977	Corrected	Yes
:		1 (((((((((((((((((((.,		
	en en en en en en en en en en en en en e	Andrew State of the State of th		ligal od, _da da ya yiliy	Brigger - Transport			
								•
								
					` '	¢	:	
	Dai-1-1-11	_6\4/==!	AND 1	0 -14	المعالمة الم	اــــــــــــــــــــــــــــــــــــ		. tuba
1.	Description	of Work Installe	a 16 inconei 690	o piugs (8 tubes). Installed stabil	izers in	6 or those	tube
	locations. In	nstalled new gasl	kets on the prim	ary manways &	secondary side	<u>inspecti</u>	on ports	
		· .		•	•			
8.	Tests Cond	ucted: Hydrost	atic* Pneu	ımatic* 🔲 Noı	minal Operating	Pressur	e 🗷 Exe	mpt 🔲
		Other [Pressure pressure	N/A psi	Test Temp.	N/A	°F	
		nown asi	. Prospins min districture		•			

	
	
	CERTIFICATE OF COMPLIANCE
	nade in the report are correct and that this conforms to the requirements of the ASM
de, Section XI.	
e Code Symbol Stamp	N/A
tificate of Authorization No.	N/A Expiration DateN/A
	9, 10,
ned Gary Alberti, SG Project	Manager Jen Strut Date 10/23/ 2006
Owner or Owner	er's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
the undersigned, holding a valid o	commission issued by the National Board of Boiler and Pressure Vessel Inspectors
	and employed by HSB CT of
Hartford, CT	have inspected the components described in this
wner's Report during the period	
est of my knowledge and belief, the	ne Owner has performed examinations and taken corrective measures described in this
wner's Report in accordance with	the requirements of the ASME Code, Section XI.
	a in a standard by a section of the
	e inspector nor his employer makes any warranty, expressed or implied, concerning the ures described in this Owner's Report. Furthermore, neither the inspector nor his employer
	by personal injury or property damage or a loss of any kind arising from or connected with
s inspection.	y percental right of property and response or any land attends from a commercial right.
0 17.	
	Commissions NB9428 ANIB PA2384
Dear S. hys	
Inspector & Signs	National Board, State, Province, and Endorsements

Form No.	1977
FUIII NO.	19//

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

-		As ivequi	red by the Prov					
1.	. Owner <u>Fi</u>	rst Energy Nucle	ear Operating Co	mpany Da	te	10/2	23/06	
	76	, ,	et - Akron OH 4	<u>4308</u> Sh	eet <u>1</u>	0	f	2
2.	Plant	Beaver Valley F	Power Station	Un	it No.		2	
		Route 168 - Shi	ippingport, PA 1	5077	Westingho Repair/Replacement			
3.	Work Perfo	rmed ByB	VPS/Site Project	ts Typ	oe Code Symbol	Stamp	1	WA
		Route 168 - Shi	ppingport, PA 15		thorization No		N/A	
				Ex	piration Date _	· · · · · · · · · · · · · · · · · · ·	N/A	
4.	Identificatio	n of System _	Reactor	coolant	 		<u> </u>	· · · · · · · · · · · · · · · · · · ·
6.	(e) Applicable	e Edition of Section A e Section XI Code Co n of Component		s/Replacement Acti	ivity: <u>1989 Edition.</u>	No Adde	enda	
			٠.					
	Name of Component	Name of Manufacturer	Manufacturer Serial No	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
							Removed, or	Code Stamped
	Component Steam	Manufacturer	Serial No.	No.	Identification	1977	Removed, or Installed	Code Stamped (Yes or No)
	Component Steam	Manufacturer Westinghouse	Serial No. DMGT-1962	No. W-16599	Identification 2RCS-SG218	1977	Removed, or Installed	Code Stamped (Yes or No)
	Steam Generator	Manufacturer Westinghouse	Serial No. DMGT-1962	No. W-16599	Identification 2RCS-SG21B	1977	Removed, or firstalled	Code Stamped (Yes or No) Yes
	Steam Generator	Manufacturer Westinghouse	Serial No. DMGT-1962	No. W-16599	Identification 2RCS-SG21B	1977	Removed, or firstalled	Code Stamped (Yes or No) Yes
7.	Steam Generator	Manufacturer Westinghouse	Serial No. DMGT-1962	No. W-16599	Identification 2RCS-SG21B	1977	Removed, or trastalled Corrected	Code Stamped (Yes or No) Yes
7.	Steam Generator Description	Manufacturer Westinghouse of Work <u>installe</u>	Serial No. DMGT-1962	No. W-16599 Diplugs (8 tubes	Identification 2RCS-SG21B	1977	Removed, or firstalled Corrected 3 of those	Code Stamped (Yes or No) Yes

replaced with sentinel plug. Po	200151417, secondary side order 200151418. Removed 1 cold leg plug, Applicable Manufacturer's Data Reports to be attached erformed a VT-1 examination on all studs, nuts, washers, insert plates
& gasket seating surfaces. Pe	erformed a VT inspection of the steam drum region & feedwater header.
	•
	CERTIFICATE OF COMPLIANCE
I certify that the statements made in code, Section XI.	n the report are correct and that this conforms to the requirements of the ASME
	A44A
ype Code Symbol Stamp	N/A
ertificate of Authorization No.	//A Expiration DateN/A
oranicate of Addionization No.	A LAPITATION DATE
igned Gary Alberti, SG Project Mana Owner or Owner's Design	
	ERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commis	ssion issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of PA a	nd employed by HSB CT of
Hartford, CT	have inspected the components described in this
	$\frac{9-27-05}{1}$ to $\frac{11-8-06}{1}$, and state that to the
· -	er has performed examinations and taken corrective measures described in this
(WMar's Danor in accordance with the re-	quirements of the ASMC Code, Section Al.
Owner's Report in accordance with the rec	
	ector nor his employer makes any warranty, expressed or implied, concerning the
By signing this certificate neither the inspe	ector nor his employer makes any warranty, expressed or implied, concerning the scribed in this Owner's Report. Furthermore, neither the inspector nor his employer
By signing this certificate neither the inspe	ector nor his employer makes any warranty, expressed or implied, concerning the scribed in this Owner's Report. Furthermore, neither the inspector nor his employer and injury or property damage or a loss of any kind arising from or connected with
By signing this certificate neither the inspe examinations and corrective measures de shall be liable in any manner for any perso	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer
By signing this certificate neither the inspe examinations and corrective measures de shall be liable in any manner for any perso	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer
By signing this certificate neither the inspe examinations and corrective measures de shall be liable in any manner for any perso	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer onal injury or property damage or a loss of any kind arising from or connected with
By signing this certificate neither the inspe examinations and corrective measures de shall be liable in any manner for any perso	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer
examinations and corrective measures de	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer onal injury or property damage or a loss of any kind arising from or connected with Commissions NB9428 ANTB PA2384
By signing this certificate neither the inspe examinations and corrective measures de shall be liable in any manner for any perso	scribed in this Owner's Report. Furthermore, neither the inspector nor his employer onal injury or property damage or a loss of any kind arising from or connected with Commissions NB9428 ANTB PA2384

Form	No.	1978

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

==-		- 1 = - 1 =						
1.	Owner Fi	rst Energy Nucle	ar Operating Co	mpany Da	ite	10/2	23/06	
	76	South Main Stre	et - Akron OH 4	<u>14308</u> Sh	eet1	0	of	2
2.	Plant	Beaver Valley F	ower Station	Un	it No.		2	
		Route 168 - Shi	ppingport, PA 15	5077	Westingho Repair/Replacement			
3.	Work Perfo	•	VPS/Site Project	tsTy	pe Code Symbol	Stamp		N/A
		Route 168 - Shi (ADDRESS)	ppingport, PA 15		thorization No piration Date _	.3	N/A N/A	
4.	Identification	n of System	Reactor	coolant				
6.	(g) Applicable	e Section XI Code Connection	ase(s) <u>N/A</u>		ivity: <u>1989 Edition.</u>			
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
	Steam Generator	Westinghouse	DMGT-1963	W-16600	2RCS-SG21C	1977	Corrected	Yes
٠.	t de la companya de l	er i de la come. No conservação como que		en ing entry sy ison. Makamananan	4 1 48 1 j.	ef 5, v (A)	e New Jaylin, Salah	
	The Control of the State of the			akir jeri se ega	e i ngari sama ni ng igin Tili Tili i mtaya ni kili jari	A CONTRACT A DESCRIPTION		
								:
		Market Control		·		ţ		
		•	•		s). Installed stabi			
	iocauons. Il	istaneu new yas	vera on the billi	ary manways, S	occultually mailw	ayo & I	INDECTION	<u> </u>
В.	Tests Condo	ucted: Hydros Other F	atic* Pneu	matic* ☐ No	minal Operating Test Temp.			empt 🗌

9. Remarks Primary side order 200151419, secondary side order 200151420.
Applicable Manufacturer's Data Reports to be attached Performed a VT-1 examination on all studs, nuts, washers, insert plates & gasket seating surfaces.
1 enormed a VI-1 examination on all stude, hute, washers, moore places a gasker scaling surfaces.
Performed a visual inspection of the steam drum region & feedwater header.
· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Type Code Symbol Stamp N/A
Type Code Symbol Stamp N/A
A contract of the second of the second of the second of the second of the second of the second of the second of
Certificate of Authorization No. N/A Expiration Date N/A
Signed Gary Alberti, SG Project Manager Joy Albert Date 10/23/2006 Owner or Owner's Designee, Title
ATTENDED TO MATCH OF MARCHAN
CERTIFICATE OF INSERVICE INSPECTION
1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of PA and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period 4-27-05 to 11-8-06, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
dia ilapedioni
1000 1 2° 1
Dean S. Lynk Commissions NB 9428 ANTB PA 2384
Inspector a Signature National Board, State, Province, and Endorsements
Date

Form No.	1979
Form No.	1979

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

							
1. Owner	F.E.N.O.C		_ D	ate	11/1	0/06	
76 South M	lain Street – Akro (ADDRESS)	on, OH 44308	_ S	neet1_	of		2
2. Plant	Beaver Valley P	ower Station (B)	<u>/PS)</u> U	nit No.		2	
	Shippingport, PA	A 15077		Work O	rder 20	0235524	
	(ADDRESS)	84. 94		Repair/Replacement	-	P.O. No., Job N	
	rmed By <u>BVPS</u>			ype Code Symbol			1/A
	Shippingport, PA	A 15077	A	uthorization No		N/A	
	(ADDRESS)		E	xpiration Date		tt .	
4. Identification	n of System	Main Steam (C	lass 2)				
(b) Applicable	Construction Code e Edition of Section 2 e Section XI Code Can of Components	(I Utilized for Repain ase(s): <u>N/A</u>		dition, <u>S'79</u> Addenda tivity <u>1989</u>	a, <u>N/A</u> Co	de Case	
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
Valve	Atwood & Morrill	3-15579-03	. N/A	2MSS-AOVI0IC	1987	Corrected	Yes
Pilot Poppet	Weir Valve	1	N/A	Ht. #73130	2003	Installed	Yes
ter the state of t	1. to a physical Collection	Arrive Maria	gra s				
7. Description	of Work Rep	laced Pilot Popp	et/stem asser	mbly and one body	//bonne	t nut.	
8. Tests Cond	ucted: Hydros Other		ımatic* 🗌 N	lominal Operating			empt 🛛

Nut: P.O. 712279	Applicable Manufacturer's Data Reports to be attached 1, Ht. #V127.
	CERTIFICATE OF COMPLIANCE
I certify that the statements, Section XI.	ents made in the report are correct and that this conforms to the requirements of the ASME
pe Code Symbol Stamp	N/A
ertificate of Authorization	No. N/A Expiration Date N/A
gned Schulte Owner	Sevin Specin 157 Date November 21 , 20 06 or Owner's Designee, Title
	CERTIFICATE OF INSERVICE INSPECTION
	a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
	Pennsylvania and employed by HSB CT of CT have inspected the components described in this
Owner's Report during the p	the state of the s
	relief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordant	ce with the requirements of the ASME Code, Section XI.
xaminations and corrective	ither the inspector nor his employer makes any warranty, expressed or implied, concerning the measures described in this Owner's Report. Furthermore, neither the inspector nor his employer r for any personal injury or property damage or a loss of any kind arising from or connected with
Dear S. Insper	Commissions I PA 2384 National Board, State, Province, and Endorsements

FORM N-2 CERTIFICATE HOLDERS' DATA REPORT FOR IDENTICAL **NUCLEAR PARTS AND APPURTENANCES***

As Required by the Provisions of the ASME Code, Section III

Not to Exceed One Day's Production

Pg. 1 of 2

tanufactured for First Energy	y, P.O. Box 6100, John	stown. PA 15907-610	0		
		(name and address of Purchas			-
ocation of installation Beave	er Valley Nuclear Powe	Plant, Route 16B, Si	nippingpo	rt PA 15077	
wno: +00446 000 6 El-	•	•	•	NI/A	. 2003
ype: *32446-303-C Rev (drawing no.)	/. 02 SA 479, S304((mart. spec. no.)	00 88100 PSI (tensile strength)		N/A (CRN)	2003 (year built
SME Code, Section III, Division 1	: 1977	S'1979	2		N/A
	(edition)	(addenda date)	(class)		(Code Case no.)
abricated in accordance with Con	st. Spec. (Div. 2 only)	N/A N/A	N/A	Date	N/A
Remarks: Cust. Item 04 W	VC Item 40-3 Qty. 1 Pil	V. 4	2446-303	-42 26-000 _0	QLA
(WVC S.O. 68311) *Dwg.					
ASME Section III 1977 Ed	ition S'1979 Addenda.			<u> </u>	
lom. Thickness (in.) 1 986	Min. design thickness (in.)	1.75 Dia. ID (ft & in.)	N/A	Length overa	0 (ft& in.) N/
4000 1100001822 (Hr.) 1.986	wan. design unckness (ar.)	1.75 Dia. ID (ft & in.)	INIA	- Lengurovera	147
When applicable, Certificate Holde	ers' Data Reports are attache	d for each item of this repo	rt		
	I	1	· · · · · ·		
Part or Appurtenance	National	Part or Appurt	enance	1 -	ational
Serial Number	Board No.	Serial Nun	ber	1	ard No. erical Order
	In Numerical Order			in Num	encal Order
(1) HT: 73130 S/N: 1	N/A	(26)			
(2)	IVA	(27)		 	
(3)		(28)			· · · · · · · · · · · · · · · · · · ·
(4)		(29)			
(5)		(30)			
(6)		(31)		1.	
(7)		(32)			
(8)		(33)			
(9)		(34)			
(10)		(35)			
(11)		(36)			
(12)		(37)			
(13)		(38)			
(14)		(39)		•	
(15)	•	(40)			
(16)		(41)		:	
		(42)			
(17)		(43)			
(17)		1 [/ 4 / 1			·
(17) (18) (19)		(44)		•	
(17) (18) (19) (20)		(45)			
(17) (18) (19) (20) (21)		(45)			
(17) (18) (19) (20) (21) (22)		(45) (46) (47)		2	
(17) (18) (19) (20) (21) (22) (23)		(45) (46) (47) (48)			
(17) (18) (19) (20) (21) (22)		(45) (46) (47)			

*Supplemental information in the form of lists, sketches, or drawings may be used provided (1) size is 8 ½ x 11, (2) information in items 2 and 3 on this Data Report is included on each sheet is numbered and the number of sheets is recorded at the top of this form.

FORM N-2 (Back - Pg. 2 of 2)

				0100 0011 1	
	CERTIFICA	TION OF DESIGN			
Design specifications certified by	N/A (when applicable)	P.E. State	N/A	Reg. no.	NA
Design report * certified by	N/A	P.E. State	N/A	Reg. no.	N/A
· · · · · · · · · · · · · · · · · · ·					
We certify that the statements made in this re	A The Administration	E OF COMPLIANCE his (these)	1	Pilot Po	ppet
conforms to the rules of construction of the At	ME Code, Section III, Div	vision 1.		:	
NPT Certificate of Authorization No.	N2607	Expires		6-1:	3-04
Date 9/19/03 Name	Veir Valves & Contr (NPT Cartificate)		Signed <u>(</u>		Officed representative)
I, the undersigned, holding a valid commission		TE OF INSPECTION		sel Inspectors a	and the State or Province of
MA, And er	ployed by		HS	BCT ,	,
of Hartford, CT has Best of my knowledge and belief, the Certifica III, Division 1. Each part listed has been auth By signing this certificate, neither the inspects in this Data Report. Furthermore, neither the loss of any kind arising from or connected with Date 9/19/03. Signed	fized for stamping on the inor his employer makes dispector nor his employe	these parts or appure a date shown shove any warranty, expre or shall be liable in so	tenances in a	iled, concerning or any personal i	the equipment described
					

1994

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

. Owner	F.E.N.O.C			Date	12	2/11/06	
76 South M	lain Street – Akı	ron, OH 44308		Sheet	1	of	1
Plant	Beaver Valley F	Power Station (I	BVPS)	Unit No.		2	
	Shippingport, P	A 15077		Repair/Replaceme	20016 ent Organiza	9557 ation P.O. No., Job N	lo., etc.
Work Perfor	med By <u>BVPS</u>	5 – Nuclear Cons	truction	Type Code Symbo	ol Stam	p <u>t</u>	N/A
	Shippingport, P	• • •		Authorization No.		N/A	
	(ADDRESS)			Expiration Date		u	- V
(c) Applicable	e Edition of Section e Section XI Code C	Case(s):	air/Replacemei	nt Activity <u>1989E</u>			
. Identificatio	n of Component	S					•
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected. Removed, or Installed	ASME Code Stamped (Yes or N
Snubber	Lisega	61211/20	N/A	2CHS-PSSP006		Replaced	No
Snubber	Lisega	61195/130	· N/A	2CHS-PSSP006		Replacement	No
Wester.	geren i i i i i i i i i i i i i i i i i i i	Mangare Cathair Solves	er er E				
	of Work Per	haced southbor	with spare	for testing/refurbishn	nent nu	rnoses	<u> </u>
Description	0. 1101K	AGOOG SHUDDOL	vini spaic i	ioi tootiiigiioluibisiili	iciii pu	i poses.	
Description							

CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A	Applicable Manufacturer's Data Reports are available. Applicable Manufacturer's Data Reports to be attached Snubbers are considered non-NF components (non-code).
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. I compared the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. I compared the Statements of Authorization No. N/A Expiration Date N/A Date Dec 11	Shubbers are considered non-far components (non-code).
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. If the code Symbol Stamp N/A	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A By Date Dec 11 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4-27-05 to 1/-1/-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions Type Report of State, Province, and Endorsements	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A Expiration Date N/A Expiration Date Dec 11 20 06 CERTIFICATE OF INSERVICE INSPECTION The undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 1/2 2 - 0.5 to 1/1 - 0.6 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. National Bound. State, Province, and Endorsements	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME ode, Section XI. The Code Symbol Stamp N/A Expiration Date N/A By Certificate of Authorization No. N/A Expiration Date N/A Date Dec 11 Dec 1	
pre Code Symbol Stamp N/A Precode Symbol Stamp N/A Britificate of Authorization No. N/A Expiration Date N/A Great B. Brooks Date Dec 11 20 06 CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 1-27-05 to 1/-//-06 and state that to the best of my knowledge and befief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Downer's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. A. A. 3. 8.4 National Bodrd, State, Province, and Endorsements	CERTIFICATE OF COMPLIANCE
pre Code Symbol Stamp N/A Expiration Date N/A Expiration Date N/A Expiration Date N/A Date Dec 11 20 06 CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 1-27-05 to 1/-//-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Downer's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. A. A. 3. 8.4. National Bodrd, State, Province, and Endorsements	
entificate of Authorization NoN/A	
gned Release Besignee, Title CERTIFICATE OF INSERVICE INSPECTION It, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Dwner's Report during the period 4-27-05 to 1/-1/-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Dwner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. Report. State, Province, and Endorsements	
CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4-27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. A. 2.3.8.4. National Board, State, Province, and Endorsements	ype Code Symbol Stamp N/A
CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4-27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. A. 2.3.8.4. National Board, State, Province, and Endorsements	certificate of Authorization No. N/A Expiration Date N/A
CERTIFICATE OF INSERVICE INSPECTION In the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4/27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. N. 19 2 3 8 4 National Board, State, Province, and Endorsements	Expiration but
CERTIFICATE OF INSERVICE INSPECTION If the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4-27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. N. P. A. 2.3.8.4. National Board, State, Province, and Endorsements	Signed Kolent B. Brooks Date Dec 11 2006
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 427-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. A. A. A. 3.8 Y. National Board, State, Province, and Endorsements	
the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 427-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. A. A. A. 3.8 Y. National Board, State, Province, and Endorsements	
and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 4.27-0.5 to 1/-1/-0.6, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. D. A. 2.3.84 National Board, State, Province, and Endorsements	CERTIFICATE OF INSERVICE INSPECTION
and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Downer's Report during the period 4-27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. D. P. A. 2.3. 8.4. National Board, State, Province, and Endorsements	
Hartford, CT have inspected the components described in this Owner's Report during the period 4-27-05 to 1/-//-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. A. A. 3. 8.4 National Board, State, Province, and Endorsements	I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
Owner's Report during the period 4-27-05 to 1/-1/-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 1, 2, 2, 3, 8, 4 National Board, State, Province, and Endorsements	and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB CT</u> of
Description of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions The PARS SY National Board, State, Province, and Endorsements	·
Downer's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions The Paranty Paranty National Board, State, Province, and Endorsements	
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examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with his inspection. Commissions T. J. P. A. 2.3.8.4 National Board, State, Province, and Endorsements	
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions To PA 2 3 8 Y National Board, State, Province, and Endorsements	By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
his inspection. Dean J. Nymbo Commissions I, N PA2384 Inspector's Signature Commissions National Board, State, Province, and Endorsements	examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
Dean Signature Commissions IN PA238Y National Board, State, Province, and Endorsements	
Inspector's Signature National Board, State, Province, and Endorsements	uns unspection.
Inspector's Signature National Board, State, Province, and Endorsements	
	Inspector's Signature National Board, State, Province, and Endorsements
Date $\sqrt{2-1/-}$, 20 0 6	Date /2-11- 20 06

Form	NIa	1005
Form	NO	1995

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

. Owner	F.E.N.O.C			Date	12	/11/06	
76 South M	Main Street – Akr (ADDRESS)	on, OH 44308		Sheet1		of	<u> </u>
Plant	Beaver Valley F	ower Station (Unit No.		2		
	Shippingport, P.	A 15077	200169558 Repair/Replacement Organization P.O. No., Job No., etc.				
;	(ADDRESS)						
Work Perfo	rmed By <u>BVPS</u>	– Nuclear Cons (NAME)	truction	Type Code Symbo	l Stam	P	√A
	Shippingport, P.	A 15077		Authorization No.	<u>-u-</u>	N/A	
	(1.001.000)			Expiration Date		u	
Identification	on of System	Chemical and	d Volume C	ontrol			· .
(e) Applicab	le Edition of Section : le Section XI Code C on of Component	ase(s):	air/Replacemei	nt Activity <u>1989E</u>			·
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
Snubber	Lisega	61211/07	N/A	2CHS-PSSP015X		Replaced	No
Snubber	Lisega	61211/20	N/A	2CHS-PSSP015X		Replacement	No
(64. x 1. 2)	\$1844 · 中国 整体	salina yez e di	 अन्तर प्रतिकृति 	attak ti tija at uni kal			
		·					
						· · · · · · · · · · · · · · · · · · ·	
Description	of Work <u>Rep</u>	laced snubber	with spare	for testing/refurbishm		rposes.	

. Remarks <u>The snubber was replaced with a used spare</u> . No C Applicable Manufacturer's Data Reports to Snubbers are considered non-NF components (non-code).	be attached
CERTIFICATE OF COMPLIAN	ICE .
I certify that the statements made in the report are correct and that this ode, Section XI.	s conforms to the requirements of the ASME
ype Code Symbol Stamp N/A	
the core of more ownly true	
ertificate of Authorization No. N/A Expiration Date	N/A
igned Robert B. Brook Date Owner or Owner's Designee, Title	Dec. 11 , 20 06
CERTIFICATE OF INSERVICE INSPI	ECTION
I, the undersigned, holding a valid commission issued by the National Board of B and the State or Province of <u>Pennsylvania</u> and employed by <u>HSB C</u>	· · · · · · · · · · · · · · · · · · ·
Hartford, CT have inspected the componer	
Owner's Report during the period $4-27-05$ to	1/-1/-96, and state that to the
best of my knowledge and belief, the Owner has performed examinations and ta	
Owner's Report in accordance with the requirements of the ASME Code, Section	ı XI.
By signing this certificate neither the inspector nor his employer makes any warra	anty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Further	
shall be liable in any manner for any personal injury or property damage or a los	s of any kind arising from or connected with
this inspection.	in the second se
dean & hymb Commissions	I, N, PA2384
Inspector's Signature	National Board, State, Province, and Endorsements

Form No	1006
Form No.	1996

ł	Owner	F.E.N.O.C			Date	12	2/11/06	
•	OWIG	(NAME)	·		Date		711700	
	76 South M	lain Street - Akr (ADDRESS)	on, OH 44308		Sheet1	<u> </u>	of	1
,	Plant	Beaver Valley P	ower Station (I	BVPS)	Unit No.		2	
		Shippingport, PA	A 15077		Repair/Replaceme	20016 nt Organiza	9571 ation P.O. No., Job N	lo., etc.
	Work Perfor	rmed By <u>BVPS</u>	Nuclear Const	truction	Type Code Symbo	ol Stam	p q	\/A
		Shippingport, PA	A 15077		Authorization No.		N/A	
		(ADDRESS)			Expiration Date		и	
	Identification	n of System	Safety Injection	on			·	
•	(g) Applicable	e Edition of Section X e Section XI Code Con n of Components	ase(s):				· .	
_		ľ		r				
	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)
							Removed, or	Code Stamped
_	Component	Manufacturer	Scrial No.	No.	Identification	Built	Removed, or Installed	Code Stamped (Yes or No)
_	Snubber Snubber	Manufacturer Basic-PSA	24340 24934	N/A N/A	Identification 2SIS-PSSP208X	Built	Removed, or Installed Replaced	Code Stamped (Yes or No)
_	Snubber Snubber	Manufacturer Basic-PSA Basic-PSA	24340 24934	N/A N/A	2SIS-PSSP208X 2SIS-PSSP208X	Built	Removed, or Installed Replaced Replacement	Code Stamped (Yes or No) No
	Snubber Snubber	Manufacturer Basic-PSA Basic-PSA	24340 24934	N/A N/A	2SIS-PSSP208X 2SIS-PSSP208X	Built	Removed, or Installed Replaced Replacement	Code Stamped (Yes or No) No

9. Remarks <u>The snubber was replaced with a used</u> Applicable Manufact	I spare. No Code Data Reports are available. urer's Data Reports to be attached
Snubbers are considered non-NF components	
•	
CERTIFICATE O	OF COMPLIANCE
	·
I certify that the statements made in the report are corrected, Section XI.	ect and that this conforms to the requirements of the ASME
Type Code Symbol Stamp N/A	
Certificate of Authorization No. N/A Expire	ation DateN/A
Signed Robert B. Brooks	Date Dec 11, 2006
Owner or Owner's Designee, Title	
	
CERTIFICATE OF INS	SERVICE INSPECTION
•	
I, the undersigned, holding a valid commission issued by the Na	tional Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed	•
Hartford, CT have inspected	• • • • • • • • • • • • • • • • • • • •
	3 to $1/-1/-0$ 6, and state that to the
best of my knowledge and belief, the Owner has performed example.	
Owner's Report in accordance with the requirements of the ASM	IE Code, Section XI.
By signing this certificate neither the inspector nor his employer	makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner,	Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property	damage or a loss of any kind arising from or connected with
this inspection	
The second secon	
alem I himib	Commissions I. J. PA2384
Inspector's Signature	National Board, State, Province, and Endorsements
	.,
/ 1 . // /	•
Date /2-//-, 20 0 6	

Form	AI.	1997
P(31111	1M1 1	1997

	F.E.N.O.C (NAME)			Date	12	2/11/06	
76 South M	Main Street - Akre (ADDRESS)	on, OH 44308		Sheet	<u> </u>	of	1
Plant	Beaver Valley P	ower Station (BVPS)	Unit No.		2	
	Shippingport, PA	A 15077			20016		
	(ADDRESS)			Repair/Replaceme	ent Organiza	ation P.O. No., Job N	o., etc.
Work Perfo	rmed By <u>BVPS</u>	- Nuclear Cons (NAME)	truction	Type Code Symbo	ol Stam	ıp <u>t</u>	N/A
	Shippingport, PA	A 15077		Authorization No.		N/A	
	(ADDRESS)			Expiration Date		66	
identificatio	n of System _	Salety Injecti	on				
Name of	n of Components Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other	Year	Corrected, Removed, or	ASME Code
L'omponent				Identification	Built		Stamped (Yes or No
Snubber	Basic-PSA	24110	N/A	ldentification 2SIS-PSSP209A	Built	Installed Replaced	Stamped (Yes or No
					Built	Replaced Replacement	(Yes or N
Snubber Snubber	Basic-PSA Basic-PSA	24110 24337	N/A N/A	2SIS-PSSP209A	Built	Installed Replaced	(Yes of N
Snubber Snubber	Basic-PSA Basic-PSA	24110 24337	N/A N/A	2SIS-PSSP209A 2SIS-PSSP209A	Buik	Replaced Replacement	No No
Snubber Snubber	Basic-PSA Basic-PSA	24110 24337	N/A N/A	2SIS-PSSP209A 2SIS-PSSP209A	Built	Replaced Replacement	No No
Snubber Snubber	Basic-PSA Basic-PSA	24110 24337	N/A N/A	2SIS-PSSP209A 2SIS-PSSP209A	Buik	Replaced Replacement	No No
Snubber	Basic-PSA Basic-PSA	24110 24337	N/A N/A	2SIS-PSSP209A 2SIS-PSSP209A		Replaced Replacement	No No

CERTIFICATE OF COMPLIANCE I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A	9. Remarks The snubber was replaced with a used spare. No Code Data Reports are available. Applicable Manufacturer's Data Reports to be attached
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Related Resolution State Date Dec 11 , 20 06 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period L-27-05 to //-//-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, N, R A J 84	Snubbers are considered non-NF components (non-code).
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Real Browner of Owner's Designee, Title CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period Y-27-05 to //-//-96 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, N, A A 3 84	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Related Resolution State Date Dec 11 , 20 06 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period L-27-05 to //-//-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, N, R A J 84	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Red B. Beals Date Dec II 2006 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period Heart of year o	
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI. Type Code Symbol Stamp N/A Certificate of Authorization No. N/A Expiration Date N/A Signed Related Resolution State Date Dec 11 , 20 06 CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period L-27-05 to //-//-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, N, R A J 84	
Certificate of Authorization NoN/A	CERTIFICATE OF COMPLIANCE
Certificate of Authorization No	I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 1-2-7-0-5 to 1-1/-10-6, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, M, PA A 3 8 4	Type Code Symbol Stamp N/A
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSBCT of Hartford, CT have inspected the components described in this Owner's Report during the period 1-2-7-0-5 to 1-1/-10-6, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, M, PA A 3 8 4	
CERTIFICATE OF INSERVICE INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period Y-27-05 to //- //- 06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions T. M. P. A. J. 8.4.	Certificate of Authorization No. N/A Expiration Date N/A
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period (-27-05) to (1/-1/-06) and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	Signed Robert B. Brooks Date Dec 11, 2006
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 9-27-05 to 1/-1/-06 and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.	
and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 9-27-05 to 1/-1/-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 1, N, P4384	CERTIFICATE OF INSERVICE INSPECTION
and the State or Province of Pennsylvania and employed by HSB CT of Hartford, CT have inspected the components described in this Owner's Report during the period 9-27-05 to 1/-1/-06, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions 1, N, P4384	
Hartford, CT have inspected the components described in this Owner's Report during the period	
Owner's Report during the period \[\frac{\frac	
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, N, P44384	4 - 2 - 2 - 4 - 4 - 26
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, J, P44384	
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection. Commissions I, J, P4384	Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Dean S. Zymba Commissions I, N, P42384	
Dean S. Zynch commissions I, N, P42384	
Control Solotis - 1	this inspection.
Continuissions	
Inspector's Signature National Board, State, Province, and Endorsements	Dean S. Lynch Commissions I, N, PA2384
	Inspector's Signature National Board, State, Province, and Endorsements
Date	Date /2-//- 20 0 b

Owner	F.E.N.O.C	1000		Date	12	2/11/06	
76 South M	Main Street – Akr (ADDRESS)	on, OH 44308	Sheet	1	of	1	
Plant	Beaver Valley F	Power Station (Unit No. 2				
	Shippingport, P.	A 15077		Panair/Panlacome	20016	9565 Ition P.O. No., Job N	la ota
Work Perfo	ormed By <u>BVPS</u>	— <u>Nuclear Cons</u> (NAME)	truction_	Type Code Symbo			V/A
·	Shippingport, P (ADDRESS)	A 15077		Authorization No. Expiration Date		N/A "	
(a) Applicable(j) Applicable(k) Applicable	•	Section I XI Utilized for Reparase(s):	19	971 Edition, <u>W72</u> Addend nt Activity <u>1989E</u>	la, <u>N/A</u> C	ode Case	
(a) Applicable (j) Applicable (k) Applicable Identification	e Construction Code le Edition of Section le Section XI Code Con of Component	Section I XI Utilized for Reparase(s): S Manufacturer	III 19	971 Edition, <u>W72</u> Addend nt Activity <u>1989E</u> Other	Year	Corrected, Removed, or	ASME Code Stamped (Yes or N
(a) Applicable (j) Applicable (k) Applicable Identification	e Construction Code le Edition of Section le Section XI Code Con of Component	Section I XI Utilized for Reparase(s): S	ill 19	<u>971</u> Edition, <u>W72</u> Addend nt Activity <u>1989E</u>		Corrected, Removed,	Code
(a) Applicable (j) Applicable (k) Applicable Identification Name of Component	e Construction Code le Edition of Section le Section XI Code Con of Component Name of Manufacturer	Section I XI Utilized for Reparates Sease(s): S Manufacturer Serial No.	III 15	971 Edition, <u>W72</u> Addend at Activity <u>1989E</u> Other Identification	Year Built	Corrected, Removed, or Installed	Code Stamped (Yes or N
(a) Applicable (j) Applicable (k) Applicable Identification Name of Component Snubber	e Construction Code le Edition of Section le Section XI Code Con of Component Name of Manufacturer Basic-PSA	Section I XI Utilized for Reparase(s): S Manufacturer Scrial No. 16967 3710	National Board No. N/A	Other Identification 2MSS-PSSP151A	Year Built	Corrected, Removed, or Installed Replaced	Code Stamped (Yes or N
(a) Applicable (j) Applicable (k) Applicable Identification Name of Component Snubber	e Construction Code le Edition of Section le Section XI Code Con of Component Name of Manufacturer Basic-PSA Basic-PSA	Section I XI Utilized for Reparase(s): S Manufacturer Scrial No. 16967 3710	National Board No. N/A	Other Identification 2MSS-PSSP151A	Year Built	Corrected, Removed, or Installed Replaced	Code Stamped (Yes or N
(a) Applicable (j) Applicable (k) Applicable Identification Name of Component Snubber	e Construction Code le Edition of Section le Section XI Code Con of Component Name of Manufacturer Basic-PSA Basic-PSA	Section I XI Utilized for Reparase(s): S Manufacturer Scrial No. 16967 3710	National Board No. N/A	Other Identification 2MSS-PSSP151A	Year Built	Corrected, Removed, or Installed Replaced	Code Stamped (Yes or N

9. Remarks The snubber was replaced with a used spare. No Code Data Reports are available.
Applicable Manufacturer's Data Reports to be attached Snubbers are considered non-NF components (non-code).
Ondobers are considered from W. Components (non code).
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
Time Code Symbol Stems - N/A
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Foliat B. Brooks Date Dec. 11 , 20 06
CERTIFICATE OF INSERVICE INSPECTION
t, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-22-05}{1}$ to $\frac{11-11-06}{1}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Children to report in assessment that the requirements of the result of
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
In a representation of the second of the sec
Dean S. hould commissions I. I PA 2384
to Matter Commissions / National Board, State, Province, and Endorsements
Date /2-//- 20 0 6
Date

Form	No	1999

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY

. Owner F.E.N.O.C (NAME)				Date	12/11/06			
76 South	Main Street – Ak	ron, OH 44308		Sheet1		of	1	
Plant		Power Station (BVPS)	Unit No.		2	·	
	(NAME) Shippingport, F (ADDRESS)	PA 15077		200169550 Repair/Replacement Organization P.O. No., Job No., etc.				
Work Perf	ormed By <u>BVP</u>	S - Nuclear Cons	struction	Type Code Symbo	Ť		V/A	
	Shippingport, F			Authorization No.		N/A		
	(ADDRESS)			Expiration Date		u		
(m) Applical	ble Edition of Section ble Section XI Code (on of Componen	Case(s):	air/Replacemer	nt Activity <u>1989E</u>				
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No	
						Removed, or	Code Stamped	
Component	Manufacturer	Serial No.	No.	Identification		Removed, or Installed	Code Stamped (Yes or No	
Snubber Snubber	Manufacturer Basic-PSA	Serial No. 16839 3702	No. N/A	Identification 2RCS-PSSP015X		Removed, or Installed	Code Stamped (Yes or No	
Snubber Snubber	Basic-PSA Basic-PSA	Serial No. 16839 3702	N/A N/A	2RCS-PSSP015X 2RCS-PSSP015X		Removed, or Installed	Code Stamped (Yes or No	
Snubber Snubber	Basic-PSA Basic-PSA	Serial No. 16839 3702	N/A N/A	2RCS-PSSP015X 2RCS-PSSP015X		Removed, or Installed	Code Stamped (Yes or No	

9. Remarks The snubber was replaced with a used spare. No Code Data Reports are available.
Applicable Manufacturer's Data Reports to be attached Snubbers are considered non-NF components (non-code).
Shabbers are considered non-NF components (non-code).
·
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
T - 0 - 1 - 10 - 1 - 10 - 1 - 10 - 1 - 10 - 1 - 1
Type Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
Signed Robert B. Brooks Date Dec. 11, 2006
·
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4.27-05}{}$ to $\frac{1-11-06}{}$, and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
Owner 3 report in accordance with the requirements of the Monie Good, Goodon Mi.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
A
Dean S. honk Commissions I, N, P+2384
Inspector's Afgrature Commissions National Board, State, Province, and Endorsements
Date 12-11-, 20 0 6

. Owner	F.E.N.O.C		<u></u>	Date	12	2/11/06	
76 South Main Street - Akron, OH 44308 (ADDRESS)			Sheet	1	of	1	
. Plant	Plant Beaver Valley Power Station (BVPS)			Unit No.	lo. <u>2</u>		
	Shippingport, P	A 15077		Repair/Replacer	20016 ment Organiza	9568 ation P.O. No., Job N	o., etc.
. Work Perfe	ormed By <u>BVPS</u>	6 – Nuclear Cons	struction	Type Code Symi	bol Stam	p q	N/A
	Shippingport, P	, ,		Authorization No	'	N/A	
	(ADDRESS)			Expiration Date		4	
(a) Applicable (n) Applicable (o) Applicable	ole Edition of Section ole Section XI Code C	Section XI Utilized for Rep Case(s):	<u>III 1</u>	971 Edition, <u>W72</u> Adder nt Activity <u>1989E</u>	nda, <u>N/A</u> C	ode Case	
. (a) Applicabl (n) Applicat (o) Applicat	e Construction Code	Section XI Utilized for Rep Case(s):	<u>III 1</u>		nda, <u>N/A</u> C	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
. (a) Applicable (n) Applicate (o) Applicate . Identification	e Construction Code ole Edition of Section ole Section XI Code C on of Component	Section XI Utilized for Rep Case(s): S Manufacturer	III 1 pair/Replacement	nt Activity <u>1989E</u> Other	Year	Corrected, Removed, or	Code Stamped
. (a) Applicable (n) Applicate (o) Applicate Identification Name of Component Snubber	e Construction Code ole Edition of Section ole Section XI Code Con on of Component Name of Manufacturer Basic-PSA Basic-PSA	Section XI Utilized for Repasse(s): S Manufacturer Serial No. 3686	National Board No. N/A	nt Activity <u>1989E</u> Other Identification	Year Built	Corrected, Removed, or Installed	Code Stamped (Yes or No
(a) Applicable (n) Applicate (o) Applicate Identification Name of Component Snubber Snubber	e Construction Code ole Edition of Section ole Section XI Code Con on of Component Name of Manufacturer Basic-PSA	Section XI Utilized for Repase(s): S Manufacturer Serial No. 3686 3688	National Board No. N/A N/A	Other Identification 2RHS-PSSP522X	Year Built	Corrected, Removed, or Installed Replaced	Code Stamped (Yes or No

Other Pressure psi Test Temp. °F

1. Remarks <u>I he snubber was replaced with a used spare. No Code Data Reports are available.</u> Applicable Manufacture's Data Reports to be attached
Snubbers are considered non-NF components (non-code).
CERTIFICATE OF COMPLIANCE
CENTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME
ode, Section XI.
va Cada Sumbal Stama N/A
/pe Code Symbol Stamp N/A
ertificate of Authorization No. N/A Expiration Date N/A
igned Frent B. Brooks Date Dec. 11 , 20 06
Owner or Owner's Designee. Title
· · · · · · · · · · · · · · · · · · ·
CERTIFICATE OF INSERVICE INSPECTION
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{}$ to $\frac{11-06}{}$ and state that to the
pest of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
his inspection.
And the second s
Dean S. hynch Commissions I, N, P + 2384
Inspectors Signature National Board, State, Province, and Endorsements
Date
Date

Form No	2001

	Owner	F.E.N.O.C			Date	12	2/11/06	
	76 South M	lain Street - Ak	ron, OH 44308		Sheet1	·····	of	1
	Plant	Beaver Valley I	Power Station (I	BVPS)_	Unit No.	······································	2	
		Shippingport, P	A 15077	 		20016 nt Organiza	9579 ation P.O. No., Job N	o., etc.
•	Work Perfor	med By <u>BVPS</u>	6 - Nuclear Const	truction	Type Code Symbo	l Stam	p <u> </u>	N/A
		Shippingport, P	A 15077		Authorization No.		N/A	
		(ADDRESS)			Expiration Date		u	
	Identification	n of System	Main Steam					
	(p) Applicable(q) Applicable	Construction Code Edition of Section E Section XI Code Control	XI Utilized for Reparase(s):		<u>971</u> Edition, <u>W72</u> Addendant Int Activity <u>1989E</u>	a, <u>N/A</u> C	ode Case	
_	Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board No.	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No
	Snubber	Basic-PSA	3702	N/A	2MSS-PSSP001		Replaced	No
_	Snubber	Basic-PSA	17210	N/A	2MSS-PSSP001		Replacement	No
	- Mayles and	हुन्द्रकः । अस्य अस्य १६ ५ ई	en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de	i e spesiti	na og somfatti til skrukt			
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	· · · · · · · · · · · · · · · · · · ·							
_	Description	of Work Re	placed snubber	with spare t	for testing/refurbishm	ent pu	rposes.	

Applicable Manufacturer's Data Reports to be attached Snubbers are considered non-NF components (non-code)
CERTIFICATE OF COMPLIANCE
I certify that the statements made in the report are correct and that this conforms to the requirements of the ASME Code, Section XI.
ype Code Symbol Stamp N/A
Certificate of Authorization No. N/A Expiration Date N/A
signed Robert B. Broofee Date Dec. 11, 2006
Owner or Owner's Designee, Table
CERTIFICATE OF INSERVICE INSPECTION
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the State or Province of Pennsylvania and employed by HSB CT of
Hartford, CT have inspected the components described in this
Owner's Report during the period $\frac{4-27-05}{11-11-06}$ to $\frac{11-11-06}{11-11-06}$ and state that to the
best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's Report in accordance with the requirements of the ASME Code, Section XI.
By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
examinations and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this inspection.
Inspector's Signature Commissions L, N, PA 23 89 National Board, State, Province, and Endorsements
Date $\sqrt{2-1/-}$, 20 0 \hat{b}

Form N	Jo.	•	2002
COHILI	WU.		ZUUZ

FORM NIS-2 OWNER'S REPORT FOR REPAIRS/REPLACEMENT ACTIVITY As Required by the Provisions of the ASME Code Section XI

	F.E.N.O.C	Date	12	/11/06	·			
76 Sou	th Main Street – Ak (ADDRESS)	ron, OH 44308	3	Sheet1	<u> </u>	of	1	
Plant _	Beaver Valley	Power Station	(BVPS)	Unit No.		2		
Shippingport, PA 15077 (ADDRESS)				200169581 Repair/Replacement Organization P.O. No., Job No., etc.				
Work Po	erformed By <u>BVP</u>	6 - Nuclear Con	struction	Type Code Symbo	ol Stam	p!	V/A	
	Shippingport, F	PA 15077		Authorization No.		N/A		
	(ADDRESS)			Expiration Date		a		
ldon#6-	ation of System	Main Steam						
Name of Component	Name of Manufacturer	Manufacturer Serial No.	National Board	Other Identification	Year Built	Corrected, Removed, or Installed	ASME Code Stamped (Yes or No)	
Snubber	Basic-PSA	3710	N/A	2MSS-PSSP131B		Replaced	No	
Snubber	Basic-PSA	16967	N/A	2MSS-PSSP131B		Replacement	No	
्राज्यमं स्य	· · · · · · · · · · · · · · · · · · ·	Andrews		and the second				
					·			
		,						
····	tion of Work Re	placed snubbe	er with spare	for testing/refurbishm	nent pu	rposes.		

S	Applicable Manufacturer's Data Reports to be attached nubbers are considered non-NF components (non-code).
· <u>— ·</u>	
	CERTIFICATE OF COMPLIANCE
	CENTIFICATE OF COMPENANCE
	fy that the statements made in the report are correct and that this conforms to the requirements of the ASME ection XI.
ívno Co	to Symbol Stamp N/A
ype Co	de Symbol Stamp N/A
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eruncal	e of Authorization No. N/A Expiration Date N/A
Signed _	Robert B. Brosle Dec. 11 , 20 0C
	· · · · · · · · · · · · · · · · · · ·
	CERTIFICATE OF INSERVICE INSPECTION
I, the un	dersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors
and the	State or Province of Pennsylvania and employed by HSB CT of
	Hartford, CT have inspected the components described in this
Owner's	Report during the period $\frac{4-27-05}{}$ to $\frac{11-11-06}{}$, and state that to the
best of r	ny knowledge and belief, the Owner has performed examinations and taken corrective measures described in this
Owner's	Report in accordance with the requirements of the ASME Code, Section XI.
	ng this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the
	tions and corrective measures described in this Owner's Report. Furthermore, neither the inspector nor his employer
	liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with
this insp	ection.
	Quality of the state of the sta
*	Inspector's Signature Commissions Vational Board, State, Province, and Endorsements
Data	12-11- 20 0 k
Date	1 20